

Etta Larson,

The
UNIVERSITY OF AKRON

AKRON, OHIO

AUGUST, 1930

GENERAL CATALOG
AND
ANNOUNCEMENTS FOR 1930-31



PUBLISHED BY
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The
UNIVERSITY *of* AKRON

General Catalog
and
Announcements for 1930-31

PUBLISHED AT AKRON, OHIO, AUGUST, 1930

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CALENDAR																												
1929					1930										1931													
JULY					JANUARY					JULY					JANUARY													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
..	1	2	3	4	5	6	..	..	..	1	2	3	4	..	..	1	2	3	4	5	..	..	..	..	1	2	3
7	8	9	10	11	12	13	5	6	7	8	9	10	11	6	7	8	9	10	11	12	4	5	6	7	8	9	10	
14	15	16	17	18	19	20	12	13	14	15	16	17	18	13	14	15	16	17	18	19	11	12	13	14	15	16	17	
21	22	23	24	25	26	27	19	20	21	22	23	24	25	20	21	22	23	24	25	26	18	19	20	21	22	23	24	
28	29	30	31	..	..	..	26	27	28	29	30	31	..	27	28	29	30	31	..	..	25	26	27	28	29	30	31
AUGUST					FEBRUARY					AUGUST					FEBRUARY													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
..	..	..	..	1	2	3	..	..	..	..	..	1	..	..	..	..	1	2	1	2	3	4	5	6	7		
4	5	6	7	8	9	10	2	3	4	5	6	7	8	3	4	5	6	7	8	9	8	9	10	11	12	13	14	
11	12	13	14	15	16	17	9	10	11	12	13	14	15	10	11	12	13	14	15	16	15	16	17	18	19	20	21	
18	19	20	21	22	23	24	16	17	18	19	20	21	22	17	18	19	20	21	22	23	22	23	24	25	26	27	28	
25	26	27	28	29	30	31	23	24	25	26	27	28	..	24	25	26	27	28	29	30	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	31	..	..	..	..	..	..	..	..	..	..	..	..	..
SEPTEMBER					MARCH					SEPTEMBER					MARCH													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
1	2	3	4	5	6	7	..	..	..	..	..	1	..	1	2	3	4	5	6	1	2	3	4	5	6	7	
8	9	10	11	12	13	14	2	3	4	5	6	7	8	7	8	9	10	11	12	13	8	9	10	11	12	13	14	
15	16	17	18	19	20	21	9	10	11	12	13	14	15	14	15	16	17	18	19	20	15	16	17	18	19	20	21	
22	23	24	25	26	27	28	16	17	18	19	20	21	22	21	22	23	24	25	26	27	22	23	24	25	26	27	28	
29	30	..	..	..	..	..	23	24	25	26	27	28	29	28	29	30	..	..	..	29	30	31	..	..	..	..
..	..	..	..	..	..	..	30	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
OCTOBER					APRIL					OCTOBER					APRIL													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
..	..	1	2	3	4	5	..	..	1	2	3	4	5	..	..	1	2	3	4	..	..	1	2	3	4		
6	7	8	9	10	11	12	6	7	8	9	10	11	12	5	6	7	8	9	10	11	5	6	7	8	9	10	11	
13	14	15	16	17	18	19	13	14	15	16	17	18	19	12	13	14	15	16	17	18	12	13	14	15	16	17	18	
20	21	22	23	24	25	26	20	21	22	23	24	25	26	19	20	21	22	23	24	25	19	20	21	22	23	24	25	
27	28	29	30	31	..	..	27	28	29	30	..	..	..	26	27	28	29	30	31	..	26	27	28	29	30	..	..
NOVEMBER					MAY					NOVEMBER					MAY													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
..	1	2	1	2	3	1	1	2
3	4	5	6	7	8	9	4	5	6	7	8	9	10	2	3	4	5	6	7	8	3	4	5	6	7	8	9	
10	11	12	13	14	15	16	11	12	13	14	15	16	17	9	10	11	12	13	14	15	10	11	12	13	14	15	16	
17	18	19	20	21	22	23	18	19	20	21	22	23	24	16	17	18	19	20	21	22	17	18	19	20	21	22	23	
24	25	26	27	28	29	30	25	26	27	28	29	30	31	23	24	25	26	27	28	29	24	25	26	27	28	29	30	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	..	..	..	..	..	..	31	..	..	..	..	..	..
DECEMBER					JUNE					DECEMBER					JUNE													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
1	2	3	4	5	6	7	1	2	3	4	5	6	7	..	1	2	3	4	5	6	..	1	2	3	4	5	6	
8	9	10	11	12	13	14	8	9	10	11	12	13	14	7	8	9	10	11	12	13	7	8	9	10	11	12	13	
15	16	17	18	19	20	21	15	16	17	18	19	20	21	14	15	16	17	18	19	20	14	15	16	17	18	19	20	
22	23	24	25	26	27	28	22	23	24	25	26	27	28	21	22	23	24	25	26	27	21	22	23	24	25	26	27	
29	30	31	..	..	..	..	29	30	..	..	..	..	..	28	29	30	31	..	..	..	28	29	30	..	..	..	..

UNIVERSITY CALENDAR

1930

- JANUARY 6, MONDAY.....Class work resumed in all departments.
- JANUARY 13-17, INCLUSIVE.....Classification for second semester, students in all day sessions except Co-operative Engineering.
- JANUARY 18, SATURDAY.....Founder's Day (observance January 17).
- JANUARY 27 to FEBRUARY 1....Final examinations.
- JANUARY 30, 31, FEB. 1.....Classification for second semester in College of Engineering and Commerce (Division B).
- JANUARY 31 AND FEB. 1.....Registration and classification of new students for second semester.
FRIDAY, 9 A. M.-4 P. M.
SATURDAY, UNTIL NOON
- FEBRUARY 3, MONDAY, 5 P. M....Registration closes for new students except those re-entering or transferring from other colleges.
- FEBRUARY 3 AND 4.....Classification of Division A, College of Engineering and Commerce.
- FEBRUARY 4, TUESDAY.....Freshman Program. Last day for payment of fees without penalty of late registration fee.
- FEBRUARY 5, WEDNESDAY.....Class work begins for all day sessions.
- FEBRUARY 6, 7, AND 8.....Registration and classification for Evening Session.
THURSDAY, FRIDAY AND
SATURDAY, 9 A. M.-9 P. M.
- FEBRUARY 10, MONDAY.....Class work begins for Evening Session.
- FEBRUARY 22, SATURDAY.....Washington's Birthday—a holiday.
- FEBRUARY 28, FRIDAY.....Senior Ashton Prize Contest.
- APRIL 7, MONDAY.....Final classification of co-operative students in College of Engineering and Commerce (Division B).
- APRIL 12, SATURDAY.....Easter recess begins.
12:00 NOON
- APRIL 21, MONDAY.....Class work resumed.
- MAY 23, FRIDAY.....Tree Day.
- MAY 30, FRIDAY.....Memorial Day—a holiday.
- JUNE 9-14.....Final examinations.
- JUNE 15, SUNDAY.....Baccalaureate exercises.
- JUNE 17, TUESDAY.....Commencement.

THE UNIVERSITY OF AKRON

- JUNE 23, MONDAY.....Registration and classification for Summer Session in Teachers College and College of Engineering and Commerce (Division B).
- JUNE 24, TUESDAY.....Class work begins in Summer Sessions.
- JULY 21, MONDAY.....Classification for Summer Session in Co-operative Engineering (Division A).
- AUGUST 1, FRIDAY.....Summer Session in Teachers College closes.
- AUGUST 11, MONDAY.....Registration and classification begins for fall semester for new resident and non-resident students in all departments of the day session.
- AUGUST 16, SATURDAY.....Summer Session for Co-operative Engineers closes.
- SEPTEMBER 8, MONDAY.....Registration and classification closes for new students, except those transferring from other colleges.
UNTIL 12:00 NOON
- SEPTEMBER 8-11 INCLUSIVE Freshman Week, compulsory for all Freshmen entering in September, 1930.
- SEPTEMBER 12 AND 13.....Registration and classification for upper-classmen in all departments (Division A and B in College of Engineering and Commerce).
FRIDAY, 8:30 A. M. TO
4:30 P. M.
SATURDAY, 8:30 A. M. TO
4:30 P. M. AND
7-9 P. M.
- SEPTEMBER 15, MONDAY.....Class work begins in all departments of the Day Session (Division A for co-operative students).
- SEPTEMBER 18, 19, AND 20.....Registration and classification for Evening Session.
THURSDAY, FRIDAY AND
SATURDAY, 9 A. M.-9 P. M.
- SEPTEMBER 22, MONDAY.....Class work begins in Evening Session.
- SEPTEMBER 26, FRIDAY.....Student Primary Election.
- OCTOBER 3, FRIDAY.....General Student Election.
- NOVEMBER 17, MONDAY.....Final registration of co-operative students in College of Engineering and Commerce (Division B).
- NOVEMBER 18, TUESDAY.....Class work begins for co-operative students in Division B.
- NOVEMBER 27, 28 AND 29.....Thanksgiving Recess.
THURSDAY, FRIDAY AND
SATURDAY
- DECEMBER 20, SATURDAY.....Christmas vacation begins for all departments.
AT NOON

1931

- JANUARY 5, MONDAY.....Class work resumed in all departments.
- JANUARY 12-17, INCLUSIVE....Classification for second semester, students in all day sessions except Co-operative Engineering and Commerce.
- JANUARY 16, FRIDAY.....Observance of Founder's Day (January 18).
- JANUARY 26 TO JANUARY 31...Final examinations.
- JANUARY 29, 30 AND 31.....Classification for second semester in College of Engineering and Commerce (Division B).
- JANUARY 30 AND 31.....Registration and classification of new students for second semester.
FRIDAY, 9 A. M.-4 P. M.
SATURDAY, UNTIL NOON
- FEBRUARY 2, MONDAY, 5 P. M. Registration closes for new students except those re-entering or transferring from other colleges.
- FEBRUARY 2 AND 3.....Classification of Division A, College of Engineering and Commerce.
- FEBRUARY 3, TUESDAY.....Freshman Program. Last day for payment of fees without penalty of late registration fee.
- FEBRUARY 4, WEDNESDAY.....Class work begins for all day sessions.
- FEBRUARY 5, 6, AND 7.....Registration and classification for Evening Session.
THURSDAY, FRIDAY AND
SATURDAY, 9 A. M.-9 P. M.
- FEBRUARY 9, MONDAY.....Class work begins for Evening Session.
- MARCH 28, SATURDAY.....Easter recess begins.
12:00 NOON
- APRIL 6, MONDAY.....Class work resumed.
- APRIL 6, MONDAY.....Final classification of co-operative students in College of Engineering and Commerce (Division B).
- MAY 29, FRIDAY.....Tree Day.
- MAY 30, SATURDAY.....Memorial Day—a holiday.
- JUNE 8-13.....Final examinations.
- JUNE 14, SUNDAY.....Baccalaureate exercises.
- JUNE 16, TUESDAY.....Commencement.
- JUNE 22, MONDAY.....Registration and classification for Summer Session in Teachers College and College of Engineering and Commerce (Division B).
- JUNE 23, TUESDAY.....Class work begins in Summer Sessions.
- JULY 20, MONDAY.....Classification for Summer Session in Co-operative Engineering (Division A).
- JULY 31, FRIDAY.....Summer Session in Teachers College closes.
- AUGUST 15, SATURDAY.....Summer Session for Co-operative Engineers closes.

THE UNIVERSITY OF AKRON

BOARD OF DIRECTORS

J. GRANT HYDE.....	Term expires 1932
B. A. POLSKY.....	Term expires 1932
JOHN W. THOMAS.....	Term expires 1932
P. W. LITCHFIELD.....	Term expires 1934
CHALMERS M. HAMILL.....	Term expires 1934
CLETUS G. ROETZEL.....	Term expires 1934
L. E. JUDD.....	Term expires 1936
MRS. T. A. CHITTENDEN.....	Term expires 1936
JAMES W. SCHADE	Term expires 1936

OFFICERS FOR 1930

JOHN W. THOMAS.....	<i>Chairman</i>
B. A. POLSKY.....	<i>Vice-Chairman</i>
C. R. OLIN.....	<i>Clerk</i>

COMMITTEES FOR 1930

Committee on Finance: POLSKY, HAMILL, SCHADE.

Committee on Investment: HYDE, JUDD, MRS. CHITTENDEN.

Committee on Buildings and Grounds: THOMAS, LITCHFIELD, ROETZEL.

ADMINISTRATIVE OFFICERS OF THE UNIVERSITY

GEORGE F. ZOOK, PH. D.....	<i>President of the University</i>
CHARLES R. OLIN, M. S.....	<i>Secretary of the University</i>
GLADYS P. WEEKS.....	<i>Registrar</i>
OSCAR E. OLIN, LL. D.....	<i>Vice-President of the Faculty</i>
ALBERT I. SPANTON, A. M.....	<i>Dean of Buchtel College of Liberal Arts</i>
FRED E. AYER, C. E.....	<i>Dean of the College of Engineering and Commerce</i>
ELSIE M. MAXWELL, A. M.....	<i>Director of Curtis School of Home Economics</i>
W. J. BANKES, A. M.,	<i>Dean of Teachers College and Director of Summer Session</i>
ELIZABETH A. THOMPSON, A. M.....	<i>Dean of Women</i>
DONFRED H. GARDNER, A. M.....	<i>Dean of Men</i>
FREDERICK S. SEFTON, M. Ed.....	<i>Physical Director</i>
JOSEPHINE A. CUSHMAN, B. L. S.....	<i>Librarian</i>
LOWELL L. HOLMES, M. A.....	<i>Director of Evening Session</i>
U. S. VANCE, A. B.....	<i>University Editor</i>
R. H. SCHMIDT, A. M.....	<i>University Examiner</i>
MARGARET F. FANNING, A. M.....	<i>Acting Alumni Secretary</i>
WILBUR C. ROBART, M. D.....	<i>University Physician</i>

GENERAL FACULTY AND OFFICERS OF INSTRUCTION

1929-1930

GEORGE FREDERICK ZOOK, *President of the University*A. B., A. M., University of Kansas; Ph. D., Cornell University, 1914.
285 Merriman Road

PROFESSORS

JOHN ADENDORFF *Professor of Industrial Engineering*M. E., Cornell University, 1907.
346 Union PlaceFRED E. AYER, *Dean of the College of Engineering and Commerce*C. E., Lafayette College, 1900.
Tallmadge, OhioWALTER J. BANKES, *Dean of Teachers College and Director of Summer Session*A. M., Clark University; Graduate work, Clark University, 1914-15.
Portage Point Drive, R. D. Barberton, OhioCHARLES BULGER, *Hilton Professor of Modern Languages*Ph. B., Buchtel College; A. M., University of Wisconsin, Ph. D., 1925; Nine months at Goettingen and Heidelberg Universities.
74 Mayfield AvenueORAL EUGENE CLARK, *Professor of Military Science and Tactics*Graduate, Infantry School, Fort Benning, Ga., 1923; The Command and General Staff School at Fort Leavenworth, Kan., 1929. Major, Infantry, U. S. A. (D. O. L.).
411 Hillwood DriveEARL WILLIS CRECRAFT, *Professor of Political Science*Ph. B., Franklin College; A. M., Columbia University, Ph. D., 1915.
688 East Buchtel AvenueWILLIAM LLOYD DAVIS, *Professor of Economics and Sociology*Ph. B., University of Wisconsin, Ph. D., 1922; Graduate work, Harvard University, 1923-24; Two six weeks Summer Sessions at Columbia University, 1926 and 1927.
391 Mell AvenueFRANCESCO B. DELEONE, *Director of Music*M. Mus., Royal Conservatory of Naples; Honorary degree, Dana's College of Music, Warren, Ohio.
585 Delaware AvenueROSS C. DURST, *Professor of Civil Engineering*B. S. in C. E., Ohio Northern University, 1915, C. E., 1922.
1995 Germaine Ave., Cuyahoga Falls, OhioFRED S. GRIFFIN, *Professor of Mechanical Engineering*M. E., Ohio State University, 1911.
157 Marvin AvenueGEORGE L. HAYES, *Professor of Psychology*M. Ed., Edinboro State Normal College; Ph. B., Ohio University; LL. B., Ohio Northern University; A. M., University of Pittsburgh, Ph. D., 1921.
348 North Firestone Blvd.DONALD HAYWORTH, *Professor of Speech*A. B., Grinnell College; A. M., University of Chicago, 1921; Ph. D., University of Wisconsin 1929.
283 East Buchtel Avenue

- FRED F. HOUSEHOLDER, *Professor of Physics*
 B. A., University of Wisconsin, M. A., 1916; Graduate work, Iowa State College, 1917; University of Wisconsin 1916, 1917, 1921; University of Chicago, 1922.
 1209 Berwyn Street
- JOHN L. JONES, *Ainsworth Professor of Mathematics*
 Ph. B., Lafayette College; M. A., Yale University, Ph. D., 1911.
 441 Kathron Avenue, Cuyahoga Falls, Ohio
- CHARLES M. KNIGHT, *Professor Emeritus of Chemistry*
 A. M., Tufts College; Sc. D., Buchtel College, 1897.
 583 Weber Avenue
- EMERY L. KUHNES, *Professor of Education*
 B. S., Upper Iowa University; Pd. M., New York University, Ph. D., 1915; Graduate work, University of Chicago, 1919.
 751 Mercer Avenue
- WARREN W. LEIGH, *Professor of Commerce and Business Administration*
 B. A., University of Utah; M. B. A., Northwestern University, 1924; Graduate work, Northwestern University, 1924-26, and Summer of 1929.
 84 Casterton Avenue
- ELSIE MAY MAXWELL, *Professor of Home Economics.*
 B. S., Teachers College, Columbia University; M. A., University of Chicago, 1928.
 21 South Walnut Street
- CHARLES R. OLIN *Secretary of the University*
 B. S., Buchtel College, M. S., 1909.
 51 Melbourne Avenue
- OSCAR E. OLIN, *Messenger Professor of Philosophy, and Vice President of the Faculty*
 A. M., Kansas State Agricultural College; LL. D., The University of Akron, 1920.
 396 East Market Street
- RAYMOND B. PEASE, *Professor of English*
 B. A. University of Wisconsin; A. M., Harvard University; Ph. D., Wisconsin, 1921; Summer Quarter, 1923, University of Chicago.
 840 Chalker Street
- AMON B. FLOWMAN, *Professor of Biology*
 B. S., Ohio Wesleyan University; A. M., Harvard University, Ph. D., 1905.
 596 Greenwood Avenue
- *JOSEPH C. ROCKWELL, *Professor of Latin and Greek*
 A. B., Wesleyan University; A. M., Harvard University; Ph. D., Jena University, 1909.
 58 Casterton Avenue
- FREDERICK S. SEPTON, *Professor of Physical Education*
 B. S., Colgate University; M. Ed., Harvard University 1925.
 589 Sunset View Drive
- HEZZLETON E. SIMMONS, *Buchtel Professor of Chemistry*
 B. S., Buchtel College; M. S., University of Pennsylvania, 1912.
 331 Beechwood Drive
- ALBERT I. SPANTON, *Pierce Professor of English and Dean of Buchtel College of Liberal Arts*
 A. B., Buchtel College; A. M., Harvard University, 1905.
 625 Weber Avenue
- ELIZABETH A. THOMPSON, *Professor of History, and Dean of Women*
 A. M., The University of Akron, 1911.
 283 East Buchtel Avenue

*Died February 16, 1930.

JOHN T. WALTHER, *Professor of Electrical Engineering*
B. S. in E. E., University of Michigan, 1909.

384 Reed Avenue

ASSOCIATE PROFESSORS

WALTER A. GILMOUR, *Associate Professor of Co-ordination and Acting Head of the Department of Co-ordination*

B. S. in C. E., Norwich University, 1914.

861 Aberdeen Street

HORACE B. HAWTHORN, *Associate Professor of Sociology*

B. S., M. S., Iowa State College; Ph. D., University of Wisconsin, 1921.

2111 Sixteenth Street, Cuyahoga Falls, Ohio

ASSISTANT PROFESSORS

DONALD ELLIOTT ANTHONY, *Assistant Professor of Economics*

B. A., Stanford University; M. A., Cornell University; Ph. D., Stanford, 1928.

37 Aqueduct Street

HARRY A. BENDER, *Assistant Professor of Mathematics*

A. B., Ohio University; A. M., University of Illinois, Ph. D., 1923.

931 Stadelman Avenue

HOWARD H. BLAIR, *Assistant Professor of Physical Education*

B. S., Ohio State University, 1923; A. M., Columbia University, 1927.

1416 Delia Avenue

MAXWELL P. BOGGS, *Assistant Secretary*

A. B., Muskingum College, 1924.

82 South Avon Street

MERL LOUIS BRODERICK, *Assistant Professor of Military Science and Tactics*

Captain, Infantry, U. S. A. (D. O. L.).

354 Roosevelt Avenue

JOHN W. BULGER, *Assistant Professor of Civil Engineering*

B. C. E., Ohio State University, 1918.

368 Sherman Street

WALTER A. COOK, *Assistant Professor of Chemistry*

B. A., University of Cincinnati, M. A., 1922, Ph. D., 1924.

1552 South Eighth Street, Cuyahoga Falls, Ohio

ROLLAND D. FOX, *Assistant Professor of Bacteriology*

B. S., The University of Akron, M. S., 1923; Director of the Division of Laboratories, Akron Health Department.

899 Stadelman Avenue

DONFRED H. GARDNER, *Assistant Professor of History, and Dean of Men*

A. B., Princeton University, 1922, A. M., 1923.

841 Merriman Road

LOWELL L. HOLMES, *Assistant Professor of Commerce and Business Administration, and Director of the Evening Session*

S. B. in Engineering Administration, Massachusetts Institute of Technology; M. A. in Economics, University of Pittsburgh, 1930.

453 Malvern Road

- THEODORE F. KOTZ, *Assistant Professor of Modern Languages*
 A. B., Lehigh, 1908; A. M., Harvard, 1911; Graduate work at Harvard two years;
 One summer in Marburg, Germany; five summer sessions and one year at Ohio State
 University.
 100 Hamilton Avenue
- WALTER C. KRAATZ, *Assistant Professor of Zoology*
 B. A., University of Wisconsin; M. A., Ohio State University, Ph. D., 1923.
 957 Mercer Avenue
- LEWIS SHEPPARD NORMAN, *Assistant Professor of Military Science and Tactics*
 LL. B., Chattanooga College of Law, 1917. Captain, Infantry, U. S. (D. O. L.),
 466 Hillwood Drive
- KATHARINE M. REED, *Assistant Professor of Modern Languages*
 B. A., Newcomb College; M. A., Tulane University; Graduate work, Columbia
 University, six weeks; Three months at the Sorbonne, Paris, 1925-26.
 900 Elmore Avenue
- AIMAR H. ROLLEFSON, *Assistant Professor of Physics*
 B. A., M. A., University of Wisconsin, Ph. D., 1928; Symposium in Theoretical
 Physics (eight weeks), University of Michigan, 1929.
 The University Club
- ERNEST F. SCHAEFER, *Director of Bureau of City Tests, and Assistant Profes-
 sor of Chemistry*
 B. E. M., Ohio State University.
 590 Vinita Avenue
- RICHARD H. SCHMIDT, *Assistant Professor of Chemistry, and University Ex-
 aminer*
 A. B., Wesleyan University; M. A., Columbia University, 1915; Graduate work,
 1915-16 at Columbia.
 Liberty Road, Stow, Ohio
 P. O., R. D., 3, Kent, Ohio
- ROY V. SHERMAN, *Assistant Professor of Political Science*
 A. B., State University of Iowa, A. M., 1926, Ph. D., 1927.
 778 Chalker Street
- SAMUEL SILBERFARB, *Assistant Professor of Mathematics*
 A. B., University of Manitoba, A. M., 1926; Ph. D., University of Chicago, 1929.
 505 Douglas Street
- *RODNEY A. SLAGG, *Assistant Professor of Botany*
 B. A., University of Wisconsin, M. S., 1924; Graduate work, five semesters and four
 six weeks Summer Sessions, 1925-28.
- CLARENCE R. UPP, *Assistant Professor of Mechanical Engineering*
 M. E., Ohio State University, 1910.
 888 Oakland Avenue
- CARY C. WOOD, *Assistant Professor of Educational Psychology*
 B. S., Ohio University; A. M., Columbia; Ph. D., University of Cincinnati, 1928.
 372 Madison Avenue

INSTRUCTORS

- DAVID E. ANDERSON, *Instructor in Chemistry*
 A. B., Augustana College; M. S., University of Chicago, 1923.
 900 Portage Trail, Cuyahoga Falls, Ohio
- MRS. JANE S. BARNHARDT, *Instructor in Art*
 B. E., University of Akron, 1928; one summer session at Columbia University, 1929.
 283 East Buchtel Avenue

*On leave 1929-30.

- J. GARFIELD CHAPMAN, *Part-time Instructor in Violin*
Director of the Violin Department, The Cleveland School of Music since 1900.
3101 Prospect Avenue, Cleveland, Ohio
- SAMUEL GRANT CONNER, *District Apprentice Co-ordinator in Industrial Teacher Training*
B. S., Pennsylvania State College, 1929. 425 Letchworth Drive
- BEATRICE S. COUNTS, *Instructor in Home Economics*
A. B., Ohio Wesleyan; B. S., Simmons College; M. S., Teachers College, Columbia University, 1926. 283 East Buchtel Avenue
- GERARD V. DONLEY, *Part-time Instructor in Philosophy and Sociology*
A. B. Hiram; B. D., Oberlin. Hiram, Ohio
- HOWARD M. DOUTT, *Part-time Instructor in Secretarial Science*
A. B., The University of Akron, 1930. 1921 Goodyear Blvd.
- SARAH E. DUNCKLEY, *Director of Physical Education for Women*
Graduate, Arnold College of Physical Education and Hygiene, 1915. B. S., The University of Akron, 1923. 390 Berry Avenue
- HOWARD R. EVANS, *Instructor in Education*
A. B., State Teachers College; M. A., Teachers College, Columbia University; Ph. D., Northwestern University, 1930. 283 East Buchtel Avenue
- MARGARET FLORENCE FANNING, *Instructor in Modern Languages, and Acting Alumni Secretary*
A. B., The University of Akron; A. M., Radcliffe College, 1926; Graduate Work, University of Toulouse, France, 1926-27. 1241 Delia Avenue
- ARETHA FAYE FERRIS, *Instructor in Art*
B. F. A., University of Missouri, 1929. 272 Sumner Street
- ELDORA FLINT, *Instructor in Secretarial Science*
B. E., University of Akron, 1930. 1130 Avon Street
- OMER R. FOUTS, *Instructor in Physics*
A. B., Wittenberg College; A. M., Ohio State University, 1925; Graduate work, Ohio State University, summer quarter, 1927; Summer sessions at the University of Michigan, 1928 and 1929. 741 Noble Avenue
- ROSALIND FREEDLANDER, *Instructor in English*
B. S., in Home Economics and B. A., The University of Akron; A. M., Columbia University, 1924. 9 Plaza Apartments
- RUSSELL J. GREENLY, *Instructor in Industrial Teacher Training*
Graduate, Williamson Trade School; Student at University of Pennsylvania five years 455 Letchworth Drive
- EUGENE GEORGE HAAS, *Instructor in Chemistry*
B. S., The University of Akron, 1920; M. S., The University of Toronto, 1922. 25 Franklin Street
-

- LAWRENCE A. HARTLEY, *Instructor in Industrial Training*
27 North Union Street
- MERLIN L. HAYES, *Assistant in Biology*
B. E., The University of Akron, 1929.
348 North Firestone Blvd.
- FLORA G. HOOVER, *Instructor in Education*
B. A., Michigan State Normal College, 1920; Graduate work, The University of Akron
1923-24; Michigan State Normal College, six weeks Summer Session.
Taylor Hotel
- CLARA M. KEMLER, *Director of Kindergarten-Primary Training*
A. M., Wittenberg College; Graduate work, University of Chicago, Summer Session,
1928.
Taylor Hotel
- DAVID KING, *Instructor in Political Science*
A. B., Maryville College; A. M., University of Chicago, 1925; Graduate work, Uni-
versity of Chicago, 1926-27; and summers of 1928 and 1929.
343 Carroll Street
- STEVE KISH, *Instructor in Military Science and Tactics*
Sergeant, U. S. A., (D. E. M. L.)
1173 East 87th Street, Cleveland, Ohio
- ELIZABETH A. LATHROP, *Instructor in Home Economics*
B S., Columbia University, 1926; A. M., 1927.
186 South Union Street
- JULIA REGER LEIGH, *Instructor in Mathematics*
B. A., University of Iowa, M. S., 1926; Graduate work, University of Chicago, six
weeks Summer Session.
84 Casterton Avenue
- WALTER CONRAD LIPPS, *Instructor in Physical Education*
B. E., The University of Akron, 1928.
528 Brown Street
- MISS WILL H. LIPSCOMBE, *Instructor in Mathematics*
B. S., Florida State College; M. S., Ohio State University, 1926.
906 Dayton Street
- CARITA MCEBRIGHT, *Instructor in Speech*
A. B., Cornell University, 1887; Emerson College of Oratory, 1895; American Acad-
emy of Dramatic Art, New York, six weeks, 1924; Columbia College of Oratory, two
four-weeks Summer Sessions on Shakespeare with Robert Mantell, 1925 and 1926.
306 East Market Street
- HAROLD THOMPSON MCKEE, *Instructor in Business Administration*
B. S., University of Pittsburgh, M. A., 1929.
525 Roslyn Avenue
- LAWRENCE CONRAD MENDENHALL, *Instructor in Dramatics and Director of
Productions*
B. S., University of Minnesota; M. S., University of Wisconsin, 1929.
281 East Buchtel Avenue
- HENRY METZGER, *Instructor in Military Science and Tactics*
Master Sergeant, U. S. A., Retired.
307 Grace Avenue
- SARA LEWIS MILLER, *Instructor in Botany*
B. A., University of Iowa, M. S., 1922.
186 South Union Street

MARJORIE MITCHELL, *Instructor in English

A. B., Western Reserve University; A. M., Radcliffe College, 1923; Graduate work, University of Chicago, six weeks Summer Session, 1924; Columbia University, six weeks Summer Session, 1929.

LUTHER A. PARK, *Part-time Instructor in Commerce and Business Administration*

A. B., Roanoke College; A. M., University of Pennsylvania, 1915; Graduate work at the University of Michigan and University of Chicago, Summer Sessions of 1916 and 1917.

889 Fried Street

THEODORE HANFORD POND, *Instructor in Art*

Attended Pratt Institute

218 South Balch Street

HAROLD ELLIS QUEEN, *Instructor in Aeronautics*

B. S., University of California, 1915; Graduate work, University of California, 1928.
137 North Highland Avenue

RUTH MARGUERITE RAW, *Instructor in English*

A. B., A. M., Hiram College; A. M., Columbia University, 1924; Summer Sessions, 1927 and 1929, at University of Washington.

Fairlawn, Ohio

GENEVIEVE RIDER, *Instructor in Public School Music*

B. M. Ed., Northwestern University, 1925.

580 Blaine Avenue

EDGAR C. ROBERTS, *Instructor in English*

B. S. in Educ., Ohio State University, M. A., 1924; Graduate work at Ohio State University, two Summer Sessions, 1928 and 1929.

112 Hamilton Avenue

MABEL JANE ROGERS, *Instructor in Modern Languages*

B. A., Western Reserve University, M. A., 1922; Graduate work, Madrid, four weeks Summer Session, 1923; Western Reserve Summer Sessions, 1925 and 1926; University of Wisconsin Summer Session of 1929.

283 East Buchtel Avenue

FRANCIS J. SADLER, *Director of Glee Clubs, Part-time Instructor*

Metropolitan School of Opera, New York; Certificate, Royal High School of Music, Berlin, Germany.

1623 East Boulevard, Cleveland, Ohio

HARRY A. SMITH, *Instructor in Physical Education*

B. E., The University of Akron, 1928, M. E., 1929.

898 Peckham Street

PAUL C. SMITH, *Instructor in Electrical Engineering*

B. S. in E. E.; Purdue University, 1917.

179 Ido Avenue

NELSON S. SNYDER, *Instructor in Education*

A. B., Mount Union College; A. M., The University of Akron, 1927; Summer Session at Ohio State University, 1928.

388 East Buchtel Avenue

ELIZABETH DAISY STEVENSON, *Instructor in English*

B. A., University of Pittsburgh; M. A., Columbia University, 1929.

105 South Balch Street

CLIFFORD STICKNEY, *Instructor in English*

B. A., University of Illinois, 1923, M. A., 1928.

601 Schiller Avenue

*On leave 1929-30.

THE UNIVERSITY OF AKRON

- WILLIAM E. STRASSNER, *Part-time Instructor in Band and Voice*
 Round Lake Summer Sessions; Chicago Musical College; Skidmore School of Arts;
 DeReszki-Seagle School; Director of Thayer Military Band since 1923.
 708 4th Street, N. W., Canton, Ohio
- WARD L. TINKLEPAUGH, *Instructor in Commerce and Business Administration*
 B. S. in Bus. Adm., Syracuse University, 1926; Graduate work at Syracuse and New
 York Universities.
 111 Hamilton Avenue
- RALPH MITCHELL VAN METRE, *Instructor in Business Administration*
 B. S., in Bus. Adm., Ohio State University, 1929.
 118 Hamilton Avenue
- ULYSSES S. VANCE, *Instructor in Journalism, and University Editor*
 A. B., State University of Iowa, 1923.
 232 Oakdale Avenue
- ROBERT DICKENSON WAY, *Instructor in Music*
 A. B., Columbia University, 1928.
 753 West Market Street
- EARL R. WILSON, *Instructor in Engineering Drawing*
 B. M. E., Ohio State University, 1916.
 1026 Marion Place

LIBRARY STAFF

- JOSEPHINE A. CUSHMAN, *Librarian*
 Ph. B., The University of Akron; B. L. S., University of Illinois, 1919.
 517 Crosby Street
- ETHEL S. KLAHRE, *Assistant Librarian*
 A. B., The University of Akron, 1927; B. S. in L. S., Western Reserve University,
 1928; Graduate work at Columbia University Summer Session of 1929.
 881 Berwyn Street
- *MATILDE LOWERY, *Assistant Librarian*
 Graduate Carnegie Library School, Pittsburgh, Pa.; One Summer at Pennsylvania
 State College; work at the University of Akron.
- VIVIEN MCCARTHY SUTTON, *Assistant Librarian*
 Certificate Tuscarawas County Normal School, 1923; Diploma, Chautauqua School
 for Librarians, 1927.
 180 North Portage Path
- NORMA RUTH OLIN, *Assistant Librarian*
 A. B., University of Akron; B. S. in L. S., Western Reserve University, 1929.
 622 Weber Avenue
- EDITH JUDD TILGHMAN, *Assistant Librarian*
 A. B., Miami University; B. S. in L. S., Western Reserve University, 1929.
 622 Weber Avenue
- PANOLA COULTER, *Assistant in Library*
 A. B., The University of Akron, 1929.
 119 Merriman Road

*On leave 1929-30.

REGISTRAR'S STAFF

- GLADYS P. WEEKS, *Registrar*
Two years collegiate work, The University of Akron. 685 East Buchtel Avenue
- EBBA LARSON, *Assistant Registrar*
665 East Buchtel Avenue
- AUDRA TENNEY, *Part-time assistant, and Secretary to the University Examiner*
A. B., The University of Akron, 1926. 754 Glendora Avenue
- JEANNE COHEN, *Assistant*
45 Borton Avenue

FELLOWS IN CHEMISTRY

- MILTON FINLEY, B. S., *Denison University*
The Goodyear Tire and Rubber Company
- HAROLD GEORGE PAFF, B. A., *Macalester College*
The B. F. Goodrich Company
- EDWARD F. SCHEFFLER, B. S., *University of Michigan*
The Firestone Tire and Rubber Company

ASSISTANTS

- MARY E. ALLAMAN, *Assistant in Latin Department*
A. B., University of Akron. 445 Noah Avenue
- ALBERTA ELWELL, *Assistant in Chemical Laboratory*
A. B., Augustana College. 900 Portage Trail, Cuyahoga Falls, Ohio
- KATHERINE T. FRAZER, *Assistant in Physical Education*
48 South Valley Street
- FRANCIS HOLMES, *Assistant in the Department of Physical Education*
2612 West Florida Avenue, Kenmore Station
- JOHN B. LEWIS, '30, *Assistant in Latin Department*
464 Morley Avenue
- CHARLES LEWIN, *Assistant in the Bureau of City Tests*
19 North 10th Street, Kenmore Station
- FRANK H. NEWTON, *Student Assistant in Bureau of City Tests, Summer of 1929*
367 Carroll Street
- MARTHA STURDEVANT, '30, *Assistant in Latin Department*
136 Rhodes Avenue

PUBLIC SCHOOL OFFICERS AND TEACHERS
CO-OPERATING WITH THE TEACHERS COLLEGE

THOMAS W. GOSLING, PH. D.....*Superintendent of Schools*

CRITIC TEACHERS

School

CLARA BARKER	<i>Crouse</i>
BLANCHE BRADY	<i>Central High</i>
RUTH BRADLEY	<i>Garfield High</i>
HAROLD BECKER	<i>Mason</i>
JUNE BERGER	<i>Barberton</i>
LILA CAREY	<i>Robinson</i>
PRISCILLA DACKERMAN	<i>South High</i>
NELLIE FISHER	<i>North High</i>
HELEN FRENCH	<i>West High</i>
A. J. GERBER	<i>West High</i>
CORINNE GROSVENOR	<i>Cuyahoga Falls</i>
BERTHA GUGLER	<i>Perkins</i>
LLOYD HAINES	<i>Special</i>
MARY HAMILTON	<i>South High</i>
MARIAN HARDING	<i>Robinson</i>
H. M. HORST	<i>West High</i>
GERTRUDE JENTSCH	<i>Jackson</i>
KATHERINE KING	<i>Jackson</i>
VESTA LEIGHT	<i>Leggett</i>
ESTHER LIND	<i>Leggett</i>
WILLIAM LOEBER	<i>South High</i>
DAISY LOWER	<i>Garfield High</i>
GENEVA MCCOID	<i>West High</i>
ETHEL MOORE	<i>South High</i>
MARETA NEWBAUER	<i>Findley</i>
MYRTLE NORMAN	<i>Seiberling</i>
HARRIET PARKER	<i>East High</i>
BLANCHE PEASE	<i>Mason</i>
VELMA POMEROY	<i>Findley</i>
KATHERINE REDINGER	<i>Henry</i>
GRACE RICHARDSON	<i>Central</i>
NAOMI ROBERTSON	<i>Cuyahoga Falls</i>
ELSA SHAFER	<i>Central High</i>
NORMA WILLIAMS	<i>West High</i>
D. B. ZOOK	<i>South High</i>

OTHER PART-TIME INSTRUCTORS AND LECTURERS

1929 SUMMER SESSION (not on the regular Day Session staff).

- E. D. BATES, A. M., *Instructor in Education*
Principal of Fraunfelter School
- AGNES BITTAKER, A. B., *Instructor in Art*
- C. J. BOWMAN, A. M., *Instructor in Education*
Principal of Central High School
- FRANK H. CLOSE, PH. B., *Instructor in Education*
Superintendent of Schools, Wadsworth, Ohio.
- CHARLES W. COOKSON, A. M., *Instructor in Education*
Superintendent of Schools, Urbana, Ohio
- PRISCILLA DACKERMAN, *Instructor in Music*
Director of Music, South High School
- RUSSELL H. ERWINE, A. M., *Instructor in Education*
Assistant Superintendent of Akron Schools
- C. A. FLICKINGER, *Instructor in Education*
Superintendent of Summit County Schools
- JOHN W. FLOOD, B. S., *Instructor in Education*
Principal of West High School
- J. H. MASON, A. M., *Instructor in Education*
Superintendent of Schools, Canton, Ohio
- M. M. PROFFITT, A. M., *Instructor in Education*
Specialist in Industrial Education,
U. S. Office of Education
- W. A. WALLS, A. M., *Instructor in Education*
Superintendent of Schools, Kent, Ohio
- ADA B. WEYER, *Instructor in Beacon Reading*

EVENING SESSION, 1929-30 (not on the regular Day Session staff).

- H. E. AMMERMAN, *Instructor in Salesmanship*
A. B., Franklin and Marshall Colleges.
513 Vineta Avenue.
- CLARA BARKER, *Instructor in Art*
800 Roslyn Avenue
- EDMUND BURROUGHS, *Instructor in Real Estate Law*
A. B., Oberlin College; LL. B., Harvard
1206 Sunset View Drive
- RENA NANCY CABLE, *Instructor in Art*
B. E., The University of Akron, 1928.
473 East Buchtel Avenue
- NAOMI EPSTEIN, *Instructor in Rhetoric*
A. B., The University of Akron, 1927.
219 Grand Avenue

- ROSE E. GOODMAN, *Instructor in Rhetoric and Algebra*
A. B., Otterbein College; A. M., Ohio State University. 1154 Johnston Street
- R. H. ERWINE, *Instructor in Education*
B. L., Ohio Wesleyan; M. A., Wittenberg. 863 Bloomfield Avenue
- C. W. HALL, *Instructor in Real Estate*
M. A., Yale University 627 West Market Street
- MRS. DONALD HAYWORTH, *Instructor in French*
A. B., Westminster College; M. A., Wisconsin 283 East Buchtel Avenue
- PANSY STALEY KINCAID, *Instructor in Psychology*
A. B., George Washington; M. A. in Educ., The University of Akron, 1928.
Cuyahoga Falls, Ohio
- NAT LEWERS, *Instructor in Advertising*
1203 Lexington Avenue
- MARGARET K. MEANS, *Instructor in Social Case Work*
B. A., Wellesley College. 421 Woodland Avenue
- FRANK MOORE, *Instructor in Industrial Arts*
A. B., University of Michigan. Cleveland, Ohio
- KENNETH W. PIKE, *Instructor in Engineering Drawing*
M. E., The University of Akron 34 Castle Boulevard
- H. E. RAMSEY, *Instructor in Engineering Mathematics*
C. E., University of Michigan 434 Malvern Road
- R. E. SIMMONS, *Instructor in Accounting*
B. S., University of Illinois, M. S. in Accounting, 1927; C. P. A., in Illinois
468 South Front Street, Cuyahoga Falls, Ohio
- W. B. THOMPSON, *Instructor in Heating*
C. E., Ohio State University 1019 Whittier Avenue
- LEWIS C. TURNER, *Instructor in Business Speaking*
A. B., Hiram College, M. E., The University of Akron, 1929 795 Roslyn Avenue
- IRA B. WALTZ, *Instructor in Accounting*
354 West Broad Blvd., Cuyahoga Falls, Ohio
- GEORGE F. WILSON *Instructor in Practical Mathematics*
M. E. United States Naval Academy 545 Crosby Street
- A. S. WOLFORD, *Instructor in Business Administration*
B. S. in Bus. Admin., University of Pittsburgh. 53 Dodge Avenue
- S. K. WORTHEN, *Instructor in Practical Mathematics*
E. E., The University of Akron. 920 Columbia Avenue

COMMITTEES OF THE GENERAL FACULTY
1929-1930

EXECUTIVE

ZOOK, O. E. OLIN, SPANTON, AYER, SIMMONS, BANKES, WEEKS (Secretary)
ADMISSIONS AND ADVANCED STANDING
SCHMIDT, SPANTON, AYER, BANKES, GARDNER

CLASSIFICATION

Buchtel College of Liberal Arts: CHARLES BULGER AND HEADS OF DEPARTMENTS
College of Engineering and Commerce: CHARLES BULGER, AYER, GILMOUR AND
DEPARTMENT HEADS
Curtis School of Home Economics: CHARLES BULGER, MAXWELL, LATHROP
Teachers College: CHARLES BULGER, BANKES AND ALL MEMBERS OF THE
TEACHERS COLLEGE FACULTY.
Evening Session: HOLMES, BANKES, HAYES, KUHNES, AND HEADS OF DEPART-
MENTS IN THE LIBERAL ARTS COLLEGE AND THE COLLEGE OF ENGINEER-
ING AND COMMERCE

SOCIAL

THOMPSON, NORMAN, REED, GILMOUR, ROLLEFSON, LATHROP, MRS. LEIGH,
AND RIDER

HOLIDAY OBSERVANCE

JOHN BULGER, BRODERICK, DELEONE, BARNHARDT, DUNCKLEY, MCKEE, LIPPS,
BLAIR, PAUL SMITH, SHERMAN, AND RAW AND CLASS ADVISERS

ATHLETICS

AYER, C. R. OLIN, SEFTON, BLAIR, NORMAN

STUDENT AFFAIRS

(Council, Elections, Advisers, Advertising, etc.)
SIMMONS, ROGERS, GRIFFIN, EVANS, LATHROP, GARDNER, VANCE

UNIVERSITY PRODUCTIONS

SPANTON, DELEONE, HAYWORTH, BARNHARDT, GARDNER, WAY, MENDENHALL,
AND MAXWELL

LIBRARY

PEASE, CUSHMAN, KRAATZ, LEIGH, KUHNES, J. BULGER, ANTHONY

SCHOLARSHIP AND HONORS

ROCKWELL, HOOVER, HAWTHORN, JONES, DURST, HOUSEHOLDER, VAN METRE

UNIVERSITY ASSEMBLY AND PUBLIC SPEAKING

HAYWORTH, DELEONE, WILSON, STICKNEY, ROBERTS, McEBRIGHT, KING

EXAMINATIONS

HAYES, DAVIS O. E. OLIN, PEASE, COOK, UPP, BENDER, FLINT, WOOD, AND
HAWTHORN

FACULTY REPRESENTATIVES FOR UNIVERSITY ACTIVITIES

FRESHMAN CLASSH. A. SMITH
SOPHOMORE CLASSCRECRAFT
JUNIOR CLASSSCHMIDT
SENIOR CLASSSIMMONS
PANHELLENIC ADVISERLATHROP
INTERFRATERNITY COUNCILGARDNER
WOMEN'S LEAGUE AND ROOMS.....ROGERS
MUSICDELEONE
UNIVERSITY PUBLICATIONSVANCE

THE UNIVERSITY OF AKRON

The University of Akron was created as a municipal institution by an ordinance of the Akron City Council, passed on August 25, 1913. This ordinance accepted in behalf of the city the offer of the Trustees of Buchtel College to give to the city the entire plant and endowment of the college as the nucleus of a municipal university, the Council promising in behalf of the city to support properly the new institution thus created. After the transfer of property had been completed by President Kolbe and Secretary Olin for the Trustees of Buchtel College, Mayor Rockwell on December 15, 1913, together with City Solicitor Taylor accepted the deeds of transfer in behalf of the city and appointed nine citizens of Akron as members of the Board of Directors of the Municipal University of Akron.

Buchtel College, the institution thus turned over to the city of Akron, was founded in 1870 by the Ohio Universalist Convention and took its name from its most generous benefactor, Hon. John R. Buchtel, who consecrated his life and his wealth to its support. It was chartered by the Ohio Legislature in the same year as a College of Liberal Arts and Letters and first opened its doors for the admission of students in September, 1872.

By the terms of transfer to the City of Akron, provision was made that Buchtel College retain its name and identity as Buchtel College of Liberal Arts of the Municipal University.

In October, 1926, by action of the Board of Directors, the name of the university was changed to The University of Akron.

The University of Akron, being supported in large part by public taxation, is entirely non-sectarian. The City of Akron has, however, agreed to carry out all provisions made by donors of funds to Buchtel College. Such funds were given in most cases to establish professorships and scholarships in the College of Liberal Arts.

DEPARTMENTS, EQUIPMENT AND STANDARDS

BUCHTEL COLLEGE OF LIBERAL ARTS

The College of Liberal Arts endeavors to carry out the wishes of the founder of Buchtel College, namely, "to secure the highest grade of classical, scientific and literary culture." Four-year courses are offered leading to the degrees of Bachelor of Arts and Bachelor of Science.

THE COLLEGE OF ENGINEERING AND COMMERCE

The College of Engineering and Commerce offers courses in various branches of engineering, in commerce and finance, and in secretarial science. All engineering courses are on the co-operative basis. Commerce courses are on the full-time basis. A certificate course and a four-year secretarial course are offered.

Five years of eleven months each are required to complete an engineering course. A school, work and vacation calendar appears in the outline of engineering courses.

THE CURTIS SCHOOL OF HOME ECONOMICS

A four-year course is offered leading to the degree of Bachelor of Science in Home Economics. Especial attention is given to preparation for teaching and other vocations.

TEACHERS COLLEGE

Teachers College was organized in 1921 in co-operation with the Akron Board of Education. The work is specifically organized for the preparation and training of teachers for the Akron Public School System, the professional improvement of teachers already in the service, and the study of educational problems.

THE EVENING SESSION

All colleges of the University offer courses in the Evening Session. Credit is given toward a degree for regularly prescribed college subjects. Candidates for a degree must satisfy the entrance requirements of the University.

Students are admitted by examination, high school certificate, or honorable dismissal from other colleges or universities, or if over twenty-one years of age, as special students not in candidacy for a degree.

Besides offering the prescribed subjects leading to a degree, the various colleges have developed certificate courses which require approximately thirty-six hours of college work. The following certificate courses are offered:

BUCHTEL COLLEGE OF LIBERAL ARTS: Writers Course.

CURTIS SCHOOL OF HOME ECONOMICS: Homemakers Course.

COLLEGE OF ENGINEERING AND COMMERCE: Municipal Engineering, Industrial Electricity, Machine Design and Power, Industrial Production, Management, Accounting, Association Courses in Advertising, Real Estate, Purchasing, Building and Loan, and a Secretarial Course.

THE TEACHERS COLLEGE: Applied Art, Art Appreciation, Planned study leading to certification by the State Department of Education.

THE SUMMER SESSION

A Summer Session of six weeks in the Teachers College furnishes instruction to teachers and other persons who seek opportunities for training. Courses are also offered to meet the needs of university students.

BIERCE LIBRARY

The University Library had its origin in a collection donated in 1874 by the late General L. V. Bierce and, during the early days of Buchtel College, the library was augmented by purchases from the proceeds of a bequest received from General Bierce's estate. In recognition of this gift, the library has been called Bierce Library. It occupies all of the main floor and most of the basement of Carl F. Kolbe Hall.

The Library contains about 29,542 cataloged volumes, about 12,180 pamphlets and about 5,000 mounted pictures in addition to several hundred volumes of miscellaneous books and public documents as yet uncataloged; also a considerable number of paper bound serials and pamphlets as yet uncounted. Departmental libraries are maintained in Olin Hall for both the Biology and Physics Departments, and in the Engineering Building for the Departments of Engineering and Commerce.

The resources of Bierce Library are open to citizens, and the students of the University are privileged also to use the Akron Public Library.

COMBINATION COURSES

To students wishing to enter the profession of law, the College of Liberal Arts offers the opportunity of a combination Arts-Law course with the Law School of Western Reserve University, and also holds itself ready to consider, in individual cases, similar combination courses with other high-grade professional schools which require at least three years of liberal arts work for entrance.

EQUIPMENT

At the time of the foundation of Buchtel College in 1870 a plot of six acres of ground was purchased at the outskirts of the village of Akron on a hill overlooking the valley. The growth of the city has included this site, so that now the University campus lies at the head of College Street, only a short distance from the business center of the city.

In 1899 the old main building was destroyed by fire and in 1901 Buchtel Hall was completed as the first of a modern group of college buildings. From earlier times there already existed on the campus Crouse Gymnasium and the President's residence, now used for a recitation and office building and known as Phillips Hall. Since the completion of Buchtel Hall there have been constructed Olin Hall, occupied by the departments of biology and physics; the central heating plant; Curtis Cottage, used as the home of the School of Home Economics; the Knight Chemical Laboratory, toward the construction of which Andrew Carnegie gave \$25,000; the Carl F. Kolbe Hall, the gift of Mr. F. A. Seiberling and Mr. F. H. Mason; and the engineering building. In 1927, one of the houses on the southwestern corner of the campus was made available for the use of the Music Department. Through the courtesy of the Akron School Board, the Teachers College occupies a part of the Spicer School Building for classroom and office purposes.

STANDARDS

The University of Akron maintains in all its departments courses of standard grade and is in every sense a standard American college, as is evidenced by its membership in such standardizing organizations as the Ohio College Association, the North Central Association of Colleges and Secondary Schools, and the American Council on Education. It is included in the approved list of the Association of American Universities for recommendation of the bachelor's degree to foreign universities, and is approved for pre-medical work by the American Medical Association. Its women graduates are eligible to membership in the American Association of University Women.

REGISTRATION AND CLASSIFICATION

Students who wish to gain admission by certificate should ask the principal of the high school to mail a statement of high school record on a blank supplied by the University Examiner upon request. If the certificate is satisfactory the applicant is notified, and is expected to present himself in person to register between August 11 and September 6. ENTERING FRESHMEN ARE NOT ALLOWED TO REGISTER AFTER NOON OF SEPTEMBER 8. A \$5.00 deposit is required at the time of registration which is applied on semester fees.

Registration of entering freshmen for the second semester is on January 30, 1931, from 9:00 to 4:00 and January 31 from 9:00 to 12:00.

FRESHMAN WEEK

The University of Akron in 1926 adopted a plan to aid the Freshman in adjusting himself to university life. The week preceding the opening of the regular sessions is devoted to a program consisting of a general assembly, tests, physical examination, lectures, payment of fees, and concluding with a mass meeting and entertainment. At the time of registration each student is assigned to a section and with the guidance of an adviser carries out the schedule as outlined by the Director of Freshman Week.

For the first semester, 1930-31, all entering freshmen are required to report at 1:00 p. m. on Monday, September 8, and attend all sessions of the week, Monday to Thursday, inclusive.

For the second semester, only one day, Tuesday, February 3, 1931, will be devoted to a freshman program.

Students transferring from any college to the University of Akron are required to take the psychological tests given during Freshman Week.

REGISTRATION DAYS

The registration days for upper classmen for 1930-31 are:

Day Session in all departments of the University, September 12 and 13; Friday, 8:30 a. m.-5:00 p. m., and Saturday, 8:30 a. m.-5:00 p. m., and 7:00-9:00 p. m. for the first semester. For the second semester, January 12 to 19, inclusive, with final registration and classification on February 2 and 3.

Evening Session, September 18, 19 and 20, 9:00 a. m. to 9:00 p. m. for the first semester; February 5, 6, and 7, 9:00 a. m. to 9:00 p. m. for the second semester.

A late registration fee of \$5 will be charged after these dates.

ADMISSION FROM OTHER COLLEGES

The student who wishes to enter the University of Akron with advanced standing should ask the Registrar of the institution from which he is transferring to send to the University Examiner a transcript of his record.

Mathematics (2 to 4 units)		
Algebra	1	to 2 units
Geometry, Plane		1 unit
Geometry, Solid		$\frac{1}{2}$ unit
Trigonometry		$\frac{1}{2}$ unit
Science (not more than 4 units in all)		
Biology		1 unit
Botany	$\frac{1}{2}$ or 1	unit
Chemistry		1 unit
General Science		1 unit
Physics		1 unit
Physiography	$\frac{1}{2}$ or 1	unit
Physiology		$\frac{1}{2}$ unit
Zoology	$\frac{1}{2}$ or 1	unit
Vocational Subjects (not more than 3 units in all)		
Agriculture	1	to 3 units
Art	1	to 3 units
Commercial Subjects	1	to 3 units
Domestic Science	1	to 3 units
Manual Arts	1	to 3 units
Music	1	to 3 units

ENTRANCE AT MID-YEAR

Students graduating from high school at mid-year may enter any classes in first year work not already filled to capacity, subject to scholarship requirements already stated.

One day, Tuesday of the first week of the semester, is devoted to a freshman orientation program. All entering freshmen are required to attend all sessions.

At the beginning of the following fall the student will be assigned to the regular freshman work of one of the courses and can pursue his studies without irregularity.

PSYCHOLOGICAL TESTS

Psychological tests are given to new students at the beginning of each semester to aid in determining the amount of work students should be permitted to carry, in advising the amount of outside work students may undertake, in deciding the dismissal or suspension of students, in considering the reinstatement of suspended students, in appointing student assistants, in determining admission to certain advanced courses, and in sectioning classes.

All new students including specials are required to take the psychological tests unless excused by the Dean of the college in which they are enrolled.

All seniors are given opportunity to take psychological tests during the week of their final examinations with the understanding that each senior who takes these tests will be given a complete statement of grades made in all psychological tests taken during his college course.

FEES AND EXPENSES

All fees are payable at the Secretary's office before the student enters classes.

SUMMARY STATEMENT

- (A) *Tuition* is free to citizens of Akron.
Tuition charges for those not citizens of Akron are shown below.
- (B) *A Maintenance Fee* is paid by all students. The amount of the fee depends upon the number of credit hours taken.
- (C) *Laboratory Fees and Breakage Deposits* are charged in some courses, to cover the materials used.
- (D) *Student Activity Fee* is charged students taking eight credit hours or more. It includes student athletic ticket.
- (E) *Graduation Fee*, in connection with Bachelor's degree and Master's degree.
- (F) *Other Small Fees*.
- (G) *Refunds*.

TUITION

Rules adopted January 12, 1926:

Citizens of the City of Akron shall not be charged tuition in any school or department of the University.

In applying this rule, the following persons, if citizens of the United States, shall be deemed to be citizens of Akron unless the circumstances of any particular case may show the fact to be otherwise, viz:

1. Any unmarried person under 21 years of age living within the City of Akron with his parents, if Akron is the place of domicile of such parents.
2. An unmarried person over 21 years of age who has resided in the City of Akron continuously for one year or more immediately prior to registering in the University for any semester, and who has chosen Akron as the place of his domicile.
3. A husband living with his wife, or a wife living with her husband, within the City of Akron, when such husband and wife have chosen Akron as the place of their domicile.

In every other case the burden of proving citizenship in the city of Akron shall rest with the person claiming the right of free tuition.

Any person enjoying the right of free tuition shall forfeit the right upon abandoning the city of Akron as his place of domicile, but may regain the right upon re-establishing his domicile in Akron.

LABORATORY FEES

All laboratory fees are payable strictly in advance before entering classes.

Bacteriology 19, 20	\$ 7.50
*Bacteriology, deposit for breakage	5.00
Biology, 3, 4, per semester, each.....	7.50
Biology, 1, 2, 6, per semester, each.....	4.00
Biology 23, 24, per semester hour, each.....	1.00
Botany, 31, 32,	4.00
Concrete Laboratory C. E. 24, per semester.....	2.00
Chemistry 1, 2, per semester, each.....	7.00
Chemistry 3, 4, 5, 6, 7, 8, 9, 10, each.....	10.00
Chemistry, 32, 33, Engineering	7.00
Chemistry 13, 14	8.00
Chemistry 15, 16	15.00
*Deposit for breakage (all laboratory courses in Engineering and each Chemistry course)	5.00
Dietetics and Advanced Nutrition, per semester.....	4.75
Electrical Laboratory E. E. 7, 8, 10, 13, 14, 22, 61, 62 per semester, each	3.00
Food Economics	2.50
Foods, per semester	4.50
Foods, per semester (evening session).....	3.75
Materials Laboratory, C. E. 18.....	2.00
Mechanical Laboratory, M. E. 24, M. E. 61, per semester, each.....	3.00
Mechanical Laboratory, M. E. 62.....	2.00
Metallurgy 34, per semester	5.00
Physics 1, 2, 3, 6, 7, per semester, each.....	4.00
Physics 4, 5, 10, 19, 20 per semester, each.....	4.00
Physics 51, 52, 53, 54, 55, 56, per semester, each.....	2.00
Radio Communication E. E. 45.....	2.00
Railroads C. E. 20.....	1.00
Research problems (Teachers College), per semester.....	5.00
†R. O. T. C. deposit for uniform (advance course).....	10.00
Steam Power Plants, M. E. 46.....	2.00
Surveying C. E. 1, per semester.....	3.00
Surveying C. E. 4, per semester.....	2.00
Table and Meal Service, per semester.....	6.00
Thesis, Teachers College	10.00
Tests and Measurements 6, 103, per semester, each.....	2.00

MUSIC

Scholarships, per semester	\$20.00
Piano practice, per semester	5.00
Private lessons, Voice, 10 lessons.....	30.00
Private lessons, Piano, 10 lessons.....	30.00
Private lessons, Violin, 10 lessons.....	25.00

*The unused portion of the breakage deposit will be returned to the student.

†This deposit is returned only to students who complete a full year's work.

No refunds will be made of late registration fees, transfer fees, examination fees, nor advance deposit if the student is eligible to enter the University.

To be entitled to refund, certain statements are required which may be learned at the Secretary's office.

Fees paid for evening courses offered but not given will be refunded.

Advance deposit will be refunded if student is not eligible to enter the University.

When students are entitled to other refunds, the University will retain a proportion and return to the student the balance paid, as stated below:

<i>Time of Withdrawal</i>	<i>Amount Retained by University</i>
Before entering classes	\$2.50 of evening session fees or \$5.00 of day session fees.
During 1st or 2nd weeks,.....	.20% of semester charge.
During 3rd or 4th weeks,.....	.40% of semester charge.
During 5th or 6th weeks,.....	.60% of semester charge.
During 7th or 8th weeks,.....	.80% of semester charge.
After 8th week,	Full amount paid.

THE TOMLINSON PRIZES

Through the kindness of Rev. Irving C. Tomlinson, Class of '80, of Boston, Mass., two prizes of \$30 and \$20 respectively will be offered each year to those two students of the University who present the best papers on a subject related to the work of the University of Akron. The subject is to be treated with especial reference to broadening the field and increasing the usefulness of the University, to its true character as a municipal university, and to its value, and need by the city.

THE ELIZABETH A. THOMPSON CUP

The Elizabeth A. Thompson Cup, named in honor of the Dean of Women, is a silver cup to be awarded each September to that Akron high school whose graduates attending the University of Akron made the best record in literary attainments during the preceding college year. It will become the permanent property of the first school which wins it three times. This cup was donated in 1925 by Mrs. Irving C. Tomlinson of Boston, Mass. The winner of the cup for 1924-25 was North High School; for 1925-26, Central High; for 1926-27, West High; for 1927-28, Central High; for 1928-29, South High.

THE JOHN R. BUCHEL CUP

The John R. Buchtel Cup, donated in 1925 by Rev. Irving C. Tomlinson, Class of '80, is a silver cup awarded annually to that high school whose graduates, during the preceding year, have made the best athletic record at the University of Akron, the cup to become the permanent property of the school which wins it three times. This cup was awarded for 1925-26 and again for 1926-27 to East High School; for 1927-28 to North High; for 1928-29 to Garfield.

THE LOOMIS CUP

In 1916 Mr. James P. Loomis of Akron donated a silver cup to be held annually by that high school in Akron whose graduates during the preceding year had made the best scholastic record at the University. By the terms of the gift, the cup became the permanent property of the school which first won it three times. Later Mr. Loomis donated a second, and a third cup has been donated by Mrs. Loomis. Contests are now being held for it. The winners of all contests are as follows:

The First Loomis Cup: 1915-16, West High School; 1916-17, South High School; 1917-18, South High School; 1918-19, won permanently by South High School.

The Second Loomis Cup: 1919-20, West High School; 1920-21, South High School; 1921-22, West High School; 1922-23, South High School; 1923-24, North High School; 1924-25, won permanently by South High School.

The Third Loomis Cup: 1925-26, Central High School; 1926-27, North High School; 1927-28, Garfield High School; 1928-29, West High School.

provided that at least two and one-half years have been taken in Buchtel College of Liberal Arts.

5. Beginning at mid-year, 1927, and thereafter, all juniors who have completed two and one-half years of work in Buchtel College of Liberal Arts with the average grade not less than 92% shall be eligible for membership.

6. Those seniors who may have entered the institution at mid-year as freshmen and who have remained three years in Buchtel College are also eligible, the required number of scholarship hours being 96.

7. Average scholarship is reckoned as a whole, not specialization.

THETA PHI

Theta Phi is a commercial honorary fraternity founded in 1918 for the purpose of encouraging high scholarship in commerce courses. Students who have an average of 85% or better in all subjects and at least 80 hours of credit are chosen in the second semester of the junior year. The purposes of the fraternity are:

1. To raise the standards of scholarship in the Department of Commerce.
2. To provide recognition for outstanding students in the Department of Commerce.
3. To further co-operation between the student body and the faculty of the Department of Commerce.

PHI CHAPTER OF SIGMA TAU

Sigma Tau is a national honorary engineering fraternity. It was established at the University of Akron in December, 1924, the charter being granted to the local honorary fraternity of O. H. M. founded in 1919. Sigma Tau elects its men on the basis of scholarship and personality. Not more than four men are elected to membership from the upper third of each junior class. The aim of the fraternity is to improve scholarship, foster a better spirit among the engineering students and help members to become better citizens.

SIGMA PI EPSILON

Sigma Pi Epsilon is an honorary fraternity, founded for the purpose of promoting scholarship, citizenship and artisanship among the students of the Teachers College. Candidates must earn an average grade of 89% during the three and a half years in Teachers College, and their rank must place them in the upper 15 per cent of the graduating class. Six semesters' work must be in Teachers College. The citizenship record is determined by a vote of the faculty of Teachers College, and the artisanship record by the student's practice teaching.

DELTA SIGMA PHI

Delta Sigma Phi is an honorary fraternity whose object is to promote scholarship, to create new interest in Curtis School of Home Economics and to promote higher ideals in living among the women graduating from the University of Akron. Students who have completed their sophomore year with an average grade of 85% are eligible.

HONORS COURSES

As a special opportunity for the exceptional student, the faculty has established what is known as Honors Courses. Students eligible to apply for these courses are chosen by the faculty council each year from the list of the juniors and seniors in accordance with their records in the Registrar's office. Such students are notified to this effect and may then, if they so desire, apply for the privilege of working in Honors Courses. From these candidates the faculty council selects a definite number of those deemed best fitted to take advantage of this opportunity. For the present the number must not exceed six.

The privilege of being eligible to Honors Courses consists in the fact that to such a student the limitation of the number of term hours does not apply, but he may elect as he and the committee may choose. Attendance of students so chosen is optional at any and all lectures and recitations.

The head of each department personally or by deputy supervises such work elected in his department. For each student in Honors Courses individual final examinations are held which consist of an oral examination before the entire committee in charge of such courses, a written examination within the major department, and a thesis which takes the form of a comprehensive study on work done.

The faculty committee in charge of Honors Courses is composed of the heads of departments in which Honors students elect majors. It consists of at least three members, the chairman being the faculty member appointed as director of Honors Courses. All Honors students meet with this committee once every two weeks in seminar.

At the close of each semester a student may for unsatisfactory work or for misconduct be deprived of Honors privileges and reduced to the rank of regular student. The faculty council may then choose another student to fill the place of one so demitted.

GENERAL REGULATIONS

THE SEMESTER HOUR—The unit of instruction is one hour per week for one semester. Three hours of laboratory work (including time for writing reports) shall be considered as equivalent to one recitation hour with preparation therefor. This unit is known as a "semester hour."

REQUIRED FOR DEGREE—128 semester hours, except in the co-operative courses of the College of Engineering and Commerce; 270 hours on the co-operative basis are required for the degree of Civil, Electrical, Industrial or Mechanical Engineer.

Candidates for a degree are required to file an application with the Registrar by February 15 of their senior year preceding graduation.

ELECTION OF SUBJECTS IN OTHER SCHOOLS OF THE UNIVERSITY—No student in one school or college shall be allowed to elect subjects in other schools until all freshman and entrance requirements are satisfied.

Students in Buchtel College may elect a total amount of not more than twenty hours' work in other schools or colleges of the University to be applied toward the requirements for graduation from Buchtel College. Work thus elected must not interfere with required major and minor studies, nor can it be substituted for them. All work elected in other colleges is subject to the approval of the Classification Committee.

GRADING SYSTEM

93-100 inclusive	Excellent	A
85-92 inclusive.....	Good	B
77-84 inclusive.....	Fair	C
70-76 inclusive.....	Poor	D
Below 70.....	{ Conditioned	E
	{ Failed	F
Incomplete		I

"Conditioned" means that although the semester's work is not of passing grade the deficiency may be made up without repeating the course in class. Failure to remove the deficiency satisfactorily by the close of the student's next semester in the University shall convert the grade to F. No higher grade than "D" shall be given for the removal of a "Condition."

The grade "Conditioned" may be given only for the first semester's work in a subject extending through two or more semesters, such as first-year chemistry or first-year foreign language.

"Incomplete" means that the student has done passing work in the course, but some part, for good reason, has not been completed. Failure to make up the omitted work satisfactorily within the first 6 weeks of the student's next semester in the University shall convert the grade to F.

QUALITY REQUIREMENT

The student must present for graduation quality points equal in number to 1.1 times the total number of semester hours passed as shown on his record in the Registrar's Office. Quality points are given as follows:

- For each credit hour of A, 3 quality points.
- For each credit hour of B, 2 quality points.
- For each credit hour of C, 1 quality point.
- For each credit hour of D, 0 quality points.

RULES REGARDING FAILURE

FIRST YEAR STUDENTS

Any first year student failing to receive credit for at least 8 semester hours (not including sub-freshman courses) with a grade other than E or F at the end of any semester, shall become a probationary student.

Any first year student failing to receive credit for at least 11 semester hours (not including sub-freshman courses) with a grade other than E or F at the end of the first semester, shall become a probationary student at the end of the second semester unless he receives credit for at least 11 semester hours with a grade other than E or F for that semester.

UPPER CLASSMEN

Any student who has been in attendance at the University of Akron or at any other college or university for one year or more, who fails, at the end of any semester, to receive credit for 11 semester hours with a grade other than E or F, shall become a probationary student.

PROBATIONARY STUDENTS

A probationary student shall be required to take a definite program of studies, from 8 to 16 hours, the exact number of hours depending upon his rating in his psychological test on entering the University. He must pass in all the work taken or be dropped from the University. He shall continue to be a probationary student until he passes all his work in a semester with the grade of C or higher.

DEGREES

A statement of degrees conferred upon completion of courses, is given under the descriptive matter of each college. To receive a second degree in course from the University of Akron, the student must complete all requirements for the degree with a minimum of 32 semester hours of work not counted for the first degree.

PHYSICAL AND MILITARY TRAINING

PHYSICAL TRAINING

PROFESSOR FRED S. SEFTON, *Director*; ASSISTANT PROFESSOR BLAIR, MR. SMITH, MR. LIPPS, MISS DUNCKLEY, DR. ROBERT, MRS. FRAZER.

AIMS

Physical education is conducted under the direct supervision of experienced physical directors, who are members of the University faculty. The aims of the department are to develop organic power, the basis of vitality, the prerequisite to physical and mental efficiency, and to secure and maintain good posture, a harmonious muscular development, and a certain degree of bodily skill and grace.

A thorough physical and medical examination is given to all students entering the University. Physical defects, abnormalities, and weaknesses are noted, and healthful exercise is prescribed to fit each student's needs; this may include athletic sports or remedial gymnastics.

During the fall and spring months there are outdoor exercises and games at Buchtel Field. During the winter months the time is devoted to boxing, wrestling, basketball, apparatus work, wand, dumbbell and swinging club drills.

These exercises are designed to bring about the erect carriage of the body, the development and strengthening of the muscular, circulatory and respiratory systems, and the maintenance of general good health and bodily vigor.

TRAINING COURSE

A course for training teachers in physical education and for preparation for coaching is given in conjunction with Teachers College. For details see statement under Teachers College section in the General Catalog or Bulletin of Teachers College.

EQUIPMENT

The gymnasium is 100 feet long and 50 feet wide. On the ground floor are locker and bath rooms. Above is the practice floor where exercises are conducted. Directly over the practice floor is the running track. The main floor of the gymnasium is 80 feet by 50 feet and is equipped with modern gymnastic apparatus.

A six-acre athletic field is provided for the use of the students, and all intercollegiate and other contests are held there. The field is equipped with a grandstand which accommodates 8,000 spectators, dressing rooms, cinder running track, baseball diamond, and football field.

THE UNIVERSITY OF AKRON

INTERCOLLEGIATE SPORTS

Intercollegiate sports are under the government of the Ohio Athletic Conference, the faculty committee appointed by the president, and a Board of Control consisting of members from the faculty and representatives of the student body elected by the students.

PHYSICAL TRAINING FOR MEN

Every student is required to take a physical examination on entering the University. All freshman and sophomore men are required to take two hours of physical training each week as a part of the combined course in military and physical training.

PHYSICAL TRAINING FOR WOMEN

All freshman women are required to take two hours of physical training each week.

THE UNIVERSITY HEALTH SERVICE

To provide for the student body necessary phases of health promotion not included in the field of physical education, the Student's Health Service has been established.

The activities of the Health Service are along the lines of personal attention, sanitation, and education. The personal attention phase of the Health Service work includes annual physical examinations of all freshman and sophomore students. Complete physical records and a follow-up system are maintained. The medical examinations conducted by the Health Service and the posture and physical efficiency tests, conducted by the Department of Physical Education are combined. The particular findings of each are of value to both.

The University Physician is in his office at the gymnasium one hour each day, from 11:00 to 12:00 a. m.

MILITARY SCIENCE AND TACTICS
RESERVE OFFICERS' TRAINING CORPS

MAJOR ORAL E. CLARK, INFANTRY (D. O. L.), *Professor*; CAPTAIN MERL L. BRODERICK, INFANTRY (D. O. L.), *Assistant Professor*; CAPTAIN LEWIS S. NORMAN, INFANTRY (D. O. L.), *Assistant Professor*; MASTER SERGEANT HENRY METZGER, U. S. A. (RETIRED), *Instructor*; SERGEANT STEVE KISH, DETACHED ENLISTED MEN'S LIST, U. S. A., *Instructor*.

In 1919 the U. S. Government established at the University of Akron a unit of the Reserve Officers' Training Corps. This unit is of the same sort as those established at practically all of the large universities and colleges throughout the country with the idea of producing trained men for the Officers' Reserve Corps. The instruction is divided into two parts: the basic course of the first two years, compulsory for all freshman and sophomore men who are physically fit, and the advanced course of the last two years (three years for co-operative students), elective for the men who have completed satisfactorily the basic course and the first two years of scholastic work for Engineering and Commerce students.

BASIC COURSE

The basic course in R. O. T. C. is required of all men during the freshman and sophomore years with the following exceptions:

- a. Aliens.
- b. Men physically disqualified.
- c. Men who have been in the military or naval service more than one year.
- d. Men who are taking short professional or pre-professional courses not leading to degrees.
- e. Men carrying less than 8 hours of work.
- f. Men who have attended another college 2 years, or who present credit for 48 hours of college work.

The work is given three hours per week for the first two years. In addition, all men of the basic course are required to take two hours' physical training each week under the direction of the Physical Director. Two hours of credit are given each semester for this combined course of military drill and physical training.

During this basic course no compensation is paid the student by the government, but uniforms (except shoes) and equipment are issued for his use. Each student is held responsible for loss or damage to government property issued to him. Each student is required to provide one pair of russet shoes, of approved military pattern, for use with the uniform. Uniforms must be turned in at the completion of each year, or at the time of leaving school; they are replaced at the beginning of the next school year.

Students entering this institution from other colleges or universities and claiming credit for previous military instruction, will confer with the military department at the beginning of the term and ascertain the amount of credit which can be given them on account of such previous military instruction. This will enable such new students to arrange their programs promptly and satisfactorily.

FRESHMAN YEAR

Subject	Theoretical Hours	Practical Hours
Military Courtesy .....	....	3
Drill and Command	30	34
Rifle Marksmanship	5	10
Scouting and Patrolling .....	....	6
Military Hygiene	6	2
Total hours per school year	41	55—96

SOPHOMORE YEAR

Subject	Theoretical Hours	Practical Hours
Scouting and Patrolling	4	8
Automatic Rifle	4	8
Musketry	4	6
Drill and Command	20	32
Combat Principles	2	8
Total hours per school year	34	62—96

ADVANCED COURSE

This course consists of five hours per week (three hours' credit per semester) during the junior and senior years (and pre-junior year for co-operative students). It is open to all students who have satisfactorily completed the basic course, provided they have been selected by the President of the University and the Professor of Military Science and Tactics. A deposit of \$10 is required, which is returned to the student when he has United States pay credits sufficient to cover cost of his uniform and if he has completed the academic year. During this course the government not only furnishes uniform and equipment, but also allows commutation of subsistence, which varies from time to time, at present being \$9 per month. Attendance at one summer camp of not more than six weeks' duration is required; for this attendance, pay at the rate of \$0.70 a day is allowed. On the satisfactory completion of the advanced course, if twenty-one years of age, the student is commissioned in the Army of the United States as a second lieutenant, Infantry Reserve. Promotions thereafter are made in accordance with Army Regulations governing the Organized Reserve.

JUNIOR YEAR		
Subject	Theoretical Hours	Practical Hours
Browning Machine Gun	18	24
37-m/m gun and Trench Mortar	8	12
Combat Principles	12	10
Drill and Command	18	34
Military Sketching—Map Reading	10	14
Total hours per school year	66	94—160
SENIOR YEAR		
Military History Nat. Defense Act	20	....
Administration	2	6
Combat Principles	18	37
Drill and Command	18	34
Field Engineering	10	....
Military Law and O. R. Regulations	10	5
Total hours per school year	78	82—160

Prerequisites for the advanced course are successful completion of the basic course, and selection by the President of the University and the Professor of Military Science and Tactics.

Either basic or advanced course, once entered upon, must be completed as a prerequisite for graduation.

Instruction consists of theoretical class room work with proper preparation of subjects for recitations, and practical work either indoors or out, putting into execution the lessons learned in the class room. The facilities of the basic as well as of the advanced course should be utilized to the fullest extent, so that our Reserve Corps of officers may be strengthened by trained college graduates.

SUMMER CAMPS

Attendance at one advanced R. O. T. C. camp, of six weeks' duration, is required of all members of the advanced course. This camp should normally be attended between the first and second years of the advanced course. Mileage at the rate of 5 cents per mile is allowed for the journey to and from the camp. Clothing, equipment, and subsistence are furnished at the camp.

In addition to the drills, target practice, maneuvers, etc., athletics, dances, and other social amusements play a part in the camp life.

MUSIC

PROFESSOR FRANCESCO B. DELEONE, *Director*; MR. WILLIAM E. STRASSNER,
MR. J. GARFIELD CHAPMAN, MR. FRANCIS J. SADLIER,
MISS RIDER, MR. WAY.

The work in music is open to election by members of all college classes. It includes a recitation course in the study of music, meeting twice a week through the year, and participation in Glee Club, Band, or Orchestra, three hours each week.

All students desiring to participate in the class room work in music, or in Orchestra, Band or Glee Club, must arrange for it on registration days as part of their regular assignment of work for the semester. Students outside the Teachers College who desire to take no studies except music must fulfill the regular requirements for college entrance. In no case shall the total credit for music toward graduation exceed ten semester hours.

SCHOLARSHIPS IN MUSIC

The university offers sixteen scholarships in piano, voice, and violin, for students who are taking the Kindergarten and Music Supervisors course, and for other students in music who are especially qualified and gifted. The scholarships are competitive and the selection is made by the Music Faculty. This procedure offers a splendid opportunity for students to further their musical education. Each scholarship yields \$20 per semester.

PRIVATE LESSONS

Opportunity is also offered for private instruction in piano under Professor DeLeone, in violin under Mr. Chapman, and in voice under Mr. Strassner. Piano practice in a specially equipped building is offered to those who desire it. The fees for such instruction are:

Piano practice, per semester.....	\$ 5.00
Private instruction, Voice, 10 lessons.....	30.00
Private instruction, Piano, 10 lessons.....	30.00
Private instruction, Violin, 10 lessons.....	25.00

COURSES OFFERED

For courses in music offered in the Teachers College see the Teachers College Bulletin or the Teachers College section of the General Catalog. For students not taking those courses, the following are offered:

THE STUDY OF MUSIC. First and second semesters. Two credits each semester.

This course is carried on as class room work and is chosen from the following subjects: rudiments, theory of music and elementary harmony, thorough bass, ear training, first year history of music, biographical history of music, musical appreciation, study of operas, etc. Students are not allowed to enter the course in the middle of the year.

PROFESSOR DE LEONE

MEN'S GLEE CLUB. First and second semesters. One credit each semester.

MR. SADLIER

WOMEN'S GLEE CLUB. First and second semesters. One credit each semester.

MR. SADLIER

ORCHESTRA. First and second semesters. One credit each semester.

MR. CHAPMAN

BAND. First and second semesters. One credit each semester.

MR. STRASSNER

BUCHTEL COLLEGE OF LIBERAL ARTS

A. I. SPANTON, A. M., *Dean*

Buchtel College was founded as a College of Liberal Arts in 1870 by the Ohio Universalist Convention in co-operation with the Hon. John R. Buchtel. It became a part of the Municipal University of Akron (now the University of Akron), December 15, 1913. The following is a list of the original incorporators of Buchtel College, all of whom are deceased:

J. S. CANTWELL, D. D.
 COL. GEO. T. PERKINS.
 HENRY BLANDY.
 REV. GEO. MESSENGER.
 REV. B. F. EATON.
 JUDGE NEWELL D. TIBBALS.
 REV. J. W. HENLEY, D. D.
 JUDGE E. P. GREEN.
 O. F. HAYMAKER.
 JOHN R. BUCHTEL.
 REV. H. F. MILLER.
 REV. E. L. REXFORD, D. D.
 REV. H. L. CANFIELD, D. D.
 WILLARD SPAULDING.
 GEORGE STEESE.
 REV. ANDREW WILLSON, D. D.
 JAMES A. LANTZ.

PRESIDENTS OF BUCHTEL COLLEGE

*S. H. MCCOLLESTER, D. D., Litt. D.....1872-1878
 *E. L. REXFORD, D. D.....1878-1880
 *ORELLO CONE, D. D.....1880-1896
 C. M. KNIGHT, Sc. D. (ad interim).....1896-1897
 I. A. PRIEST, D. D.....1897-1901
 *A. B. CHURCH, D. D., LL. D.....1901-1912
 P. R. KOLBE, Ph. D.....1913-1914

*Deceased.

ENDOWMENTS

MESSENGER PROFESSORSHIP

The Messenger Professorship of Mental and Moral Philosophy was endowed by Mrs. Lydia A. E. Messenger, late of Akron, in memory of her deceased husband, Rev. George Messenger.

HILTON PROFESSORSHIP

The Hilton Professorship of Modern Languages was endowed by John H. Hilton, late of Akron.

PIERCE PROFESSORSHIP

The Pierce Professorship of English Literature was endowed by Mrs. Chloe Pierce, late of Sharpsville, Pa.

BUCHTEL PROFESSORSHIP

The Buchtel Professorship of Physics and Chemistry was named in honor of Mrs. Elizabeth Buchtel, late of Akron.

AINSWORTH PROFESSORSHIP

The Ainsworth Professorship of Mathematics and Astronomy was endowed by Henry Ainsworth, late of Lodi.

RYDER PROFESSORSHIP

The Ryder Professorship of Rhetoric and Oratory was established by the Board of Trustees in Memory of Dr. William H. Ryder, late of Chicago.

MESSENGER FUND

The Messenger Fund was created by Mrs. Lydia A. E. Messenger, late of Akron. The fund consists of \$30,000.

ISAAC AND LOVINA KELLY FUND

The Isaac and Lovina Kelly Fund was created by Isaac Kelly, late of Mill Village, Pa. This fund consists of \$35,788.

WILLIAM PITT CURTIS FUND

This fund was established by William Pitt Curtis, late of Wadsworth, Ohio. It now amounts to \$25,000.

CROSLEY LIBRARY FUND

This fund was established by the Rev. Lotta D. Crosley, late of Kent, Ohio. It amounts to \$3,000.

ENTRANCE REQUIREMENTS

The following supplements the statement of general entrance requirements made on introductory pages.

The minimum requirement for entrance to the Liberal Arts College is 15 units. Not less than 12 of these 15 units must be from the following subjects: English, Mathematics, Foreign Language, Science, History, the Social Sciences. The following 9½ units must be included:

English	3	units
Mathematics (Algebra, 1½; Plane Geometry, 1)	2½	units
Foreign Language (4 recommended)	2	units
U. S. History and Civics	1	unit
Science (must include laboratory work)	1	unit

The required foreign language units must be in the same language.

Four units of foreign language are required of students in A. B. Courses desiring to major in foreign language. For a major in Latin, or in Latin and Greek, these four units must be Latin.

THESIS

A thesis showing original research by the student may be presented for graduation. It shall be taken in the subject chosen as the student's major, and shall count for two term hours if carried satisfactorily beyond the regular class room work. The thesis must be handed to the instructor in charge one week before final examinations.

COURSES OF STUDY AND DEGREES

The courses of study in Buchtel College lead to the A. B. degree, except the Chemistry course and the Pre-medical course, which lead to the B. S. degree.

REQUIREMENTS FOR GRADUATION

The requirement for graduation is 128 semester hours and 141 quality points (see page 42). The 128 hours must include the following in addition to the required work of the freshman year and the required physical and military training in the sophomore year: a major of 18 to 30 hours; a minor of 18 hours; from 24 to 32 hours of group-electives; and additional subjects to make the total of 128 hours.

FRESHMAN STUDIES

First-year special or irregular students are not allowed to elect work above the freshman year.

Students are not allowed to begin two languages at the same time.

*THE A. B. COURSE

Rhetoric	3 credit hours each semester—required	
Human Biology	3 credit hours one semester—required	
Problems of Citizenship....	3 credit hours one semester—required	
Physical Training (women)	1 credit hour each semester—required	
Physical Training and Military Drill (men).....	2 credit hours each semester—required	
French	3 or 4 credit hours each semester	} one required
Spanish	3 or 4 credit hours each semester	
German	3 or 4 credit hours each semester	
Latin	4 credit hours each semester	
Greek	4 credit hours each semester	
Mathematics	4 credit hours each semester—required	

THE B. S. COURSE

For the required freshman subjects in the Chemistry course and the Pre-medical course, see pages 57 and 58.

MAJORS

At the close of the freshman year the student is asked to select the department and subject in which he desires to take the most work. The subject selected is thereafter known as his major.

The following table gives the number of semester hours required for a major in each subject:

I. LATIN	32 hours, including freshman requirement.
II. GERMAN	24 hours, including freshman requirement.
III. FRENCH	24 hours, including freshman requirement.
IV. SPANISH	24 hours, including freshman requirement.
V. ENGLISH	30 hours.
VI. HISTORY	30 hours.
VII. POLITICAL SCIENCE	24 hours.
VIII. ECONOMICS	24 hours.
IX. SOCIOLOGY	24 hours.
X. PHILOSOPHY	24 hours.
XI. SCIENCE	24 hours.
XII. MATHEMATICS	30 hours, including freshman requirement.
XIII. BIOLOGY	30 hours, including freshman requirement.
XIV. PHYSICS	30 hours, including freshman requirement.
XV. CHEMISTRY	See page 58
XVI. PRE-MEDICAL	See page 57.

*Students in A. B. courses may substitute Latin or Greek for mathematics. Students intending to major in biology or physics will take biology or physics in the freshman year, and postpone their foreign language or some other freshman subject until the sophomore year.

BUCHTEL COLLEGE OF LIBERAL ARTS

MINORS

In addition to his major, the student is required to take at least hours in some department other than his major department. Ordinarily the minor will be closely related to the major. With the permission of his major professor, the student may select his minor from two closely related departments. All minor work must be approved by the student's major professor.

GROUP ELECTIVES AND FREE ELECTIVES

In addition to his major and minor work and the required sophomore work in physical and military training, the student must choose certain group electives, as indicated in the following table. He is then free to elect such subjects as he desires to complete the 128 hours needed for graduation.

Minors and group electives must be in addition to any work taken to satisfy freshman requirements.

The same subject cannot be counted as satisfying both minor and group elective requirements.

TABLE OF MAJOR, MINOR, AND GROUP-ELECTIVE REQUIREMENTS IN SEMESTER HOURS

	Group-Electives							
	Major	Minor	Total Group Electives	Laboratory Science	**Foreign Language	History, Economics or Political Science	Psy- chology or Sociology	Literature or Speech
Latin	*32	18	26	8		6	6	6
German	*24	18	26	8		6	6	6
French	*24	18	26	8		6	6	6
Spanish	*24	18	26	8		6	6	6
English	30	18	26	8	6	†6	6	6
History	30	18	26	8	6		6	6
Political Science	24	18	26	8	6		6	6
Economics	24	18	26	8	6		6	6
Sociology	24	18	26	8	6	6		6
Philosophy	24	18	26	8	6	6		6
Speech	24	18	26	8	6	6	6	
Mathematics	*30	18	32	8	°6	6	6	6
Biology	*32	18	24		°6	6	6	6
Physics	*30	18	24		°6	6	6	6
Chemistry	See page 58							
Pre-medical	See page 57							

The student should consult the descriptive matter of his major department for more specific information concerning major, minor, and group-elective requirements.

**The minimum requirement in foreign language (including work taken in either high school or the University) for graduation from the Liberal Arts College is four years.

Not less than two years of any one language will be counted toward meeting this requirement, and at least two of the four years' work in language must be taken in the University, except in the case of students offering four years of one foreign language for entrance, who will be required to take only one year of foreign language in the University.

A year's work in foreign language in the University is to be understood as including at least six credit hours.

*Including freshman requirement.

†Must be History of England.

°Must be second year German, or second year French.

THE UNIVERSITY OF AKRON

SUBJECTS OF INSTRUCTION

An asterisk (*) preceding the course number indicates the course is open to juniors and seniors.

The letters de following the course number indicate that the course is given in both the Day and Evening Sessions; e indicates Evening Session only.

BIOLOGY

PROFESSOR PLOWMAN, ASSISTANT PROFESSORS KRAATZ, FOX, AND SLAGG*,
MRS. MILLER, MR. HAYES.

Major: Thirty-two hours, beginning with either 1-2 or 31-32, and following either the general biological, the zoological, or the botanical trend. Students who expect to enter the medical school should take the special Pre-medical Major course, as outlined on a subsequent page.

Biology Major students should select the minor field and plan the minor work at the beginning of the sophomore year.

Under the division of Group Electives, Biology Major students should take Chemistry or Physics; German or French; Economics or Political Science; Psychology; and Literature.

General Final Examination: Seniors majoring in biology are required to pass a general final examination covering all the work they have taken in the department. This examination is given on the completion of course 17.

Courses in Geology are not to be included in the biology major, but they may be taken as minors.

No credit will be allowed toward graduation for less than the entire year's work in either of the basic courses, 1-2 and 31-32.

Courses 14 and 15, in Human Biology, are freshman requirements, and they cannot be included in either major or minor in Biology.

For statement of laboratory fees, see introductory pages of this bulletin.

1-2. GENERAL ZOOLOGY. Both semesters. Four credits each semester. This course consists of two lectures and six hours of laboratory work per week, beginning with primitive one-celled organisms and following through the main systematic groups of the animal kingdom. This study includes structure, functions and relationships of the various animal types, and aims to stress the essential unity of the whole range of animal life, including man.
ASSISTANT PROFESSOR KRAATZ

31-32. GENERAL BOTANY. Both semesters. Four credits each semester. Two lectures and six hours of laboratory work per week, devoted to comparative studies of the principal plant groups, with respect to their anatomy, nutrition, life histories, heredity, and evolutionary development. The main purpose of the course is to discover the diverse ways in which plant life has solved the problems of existence.
ASSISTANT PROFESSOR SLAGG

NOTE:—Either of these two basic courses, 1-2 and 31-32, may be taken to meet the group elective requirement in laboratory science.

3. VERTEBRATE ANATOMY. First semester. Four credits. This course consists of a comparative survey of the organ systems of vertebrates, with emphasis upon homology in relation to their development. Laboratory work includes dissections of fish, amphibian, and mammal. Two lectures and six hours of laboratory work per week. Required of pre-medical students. Prerequisite, 1-2.
ASSISTANT PROFESSOR KRAATZ

*Absent on leave, 1929-1930.

4. EMBRYOLOGY OF VERTEBRATES. Second semester. Four credits.

A course in general vertebrate embryology, with comparative studies of early development of frog and chick. The laboratory work includes the preparation of a series of microscope slides from embryo material. Two lectures and six hours of laboratory work per week. Prerequisite, 1-2-3.

ASSISTANT PROFESSOR KRAATZ

5 GENETICS. First semester. Three credits.

Lectures, recitations, and some reference reading and demonstrations, dealing with the problems of heredity, variation, and phylogeny of animals and plants. Special consideration is given to the application of the laws of genetics to the improvement of the human race. Prerequisite, either 1-2 or 31-32.

PROFESSOR PLOWMAN

6. GENERAL ENTOMOLOGY. Second semester. Four credits.

This course deals with insects in a general way, including structure, characteristics, classification, life histories, habits, and the economic and ecological relations of some representative groups. Two lectures or recitations, with textbook, and six hours of laboratory work per week. Prerequisite, 1-2.

ASSISTANT PROFESSOR KRAATZ

7-8. HUMAN PHYSIOLOGY. Both semesters. Four credits each semester.

Four lecture-recitations per week, with occasional demonstration experiments, in a detailed study of the human body and its functioning. This course is for college men. Some knowledge of physics and chemistry will be very useful in this subject. Prerequisite, Zoology 1-2, or equivalent. Offered in 1930-1931, and alternate years.

PROFESSOR PLOWMAN

9-10. HUMAN PHYSIOLOGY. Both semesters. Four credits each semester.

This course is intended for college women. It is given in alternation with 7-8, and will be omitted in 1930-1931.

PROFESSOR PLOWMAN

11de. ORGANIC EVOLUTION. First semester. Three credits.

This course seeks to explain the meaning of evolution. It deals mainly with a survey of the evidences of organic evolution, together with outlines and a brief history of the main theories regarding the evolution concept. Three hours per week, mainly lectures, with discussions and reference reading. Prerequisites, 1-2 or 31-32.

ASSISTANT PROFESSOR KRAATZ

14. HUMAN BIOLOGY. Either semester. Three credits.

A brief study of the human body, considering its development, structure, and internal processes, together with its relationship to the inanimate environment and to other living things. Special emphasis is placed upon the matter of personal health and fitness for the task of living. Required of all men in the first year of the A. B. curriculum. Three lectures per week, with reference reading.

PROFESSOR PLOWMAN

15. HUMAN BIOLOGY. Either semester. Three credits.

This course is similar to 14, but it is specially adapted to meet the requirements of college women. It is required of all women in the first year of the A. B. curriculum. Three lectures per week, with reference reading.

PROFESSOR PLOWMAN

***17. THE BIOLOGICAL SCIENCES. First semester. Three credits.**

A general survey of the history and trend of the major fields of Biology. Required of all Biology major seniors. PROFESSOR PLOWMAN

18. CONSERVATION. Second semester. Three credits.

A course of lectures and recitations, dealing with the natural resources of the world; their modes of origin, modes of recovery, uses and conservation. This course forms the natural connecting link between technical Biology and the fields of sociology, economics, commerce, and the like. This course is open to all college students, without prerequisite. PROFESSOR PLOWMAN

19-20. BACTERIOLOGY. Both semesters. Four credits each semester.

This course consists of two lecture-recitations and six hours of laboratory work per week. It deals with the history and growth of the science of bacteriology, a study of the nature and properties of micro-organisms, the relations of bacteria and certain protozoa to man, bacteriological laboratory technique, and the elements of pathology. Either Biology 1-2 or Botany 31-32 is prerequisite, and some knowledge of chemistry is essential. An adaptation of this course, including two lectures and three hours of laboratory work per week, has been arranged for students majoring in chemistry. ASSISTANT PROFESSOR FOX

21-22. SANITATION AND PUBLIC HEALTH. Both semesters. Three credits each semester.

A study of the history and principles of sanitary science, including the working out of specific problems in connection with the food and water supply, garbage and sewage disposal, factories, schools, and other institutions of Akron. This course should prove especially helpful to teachers in the public schools. Prerequisite, 1-2 or 31-32. ASSISTANT PROFESSOR FOX

***23-24. BIOLOGICAL PROBLEMS. Both semesters.**

Advanced students in the department may undertake special lines of biological study, under the personal direction of some member of the departmental staff. Credit in this course is determined by the nature and amount of the work done. PROFESSOR PLOWMAN AND ASSISTANT PROFESSORS KRAATZ, FOX, AND SLAGG

33-34. NATIVE AND ECONOMIC PLANTS.. Both semesters. Three credits each semester.

Two lecture-recitations and two hours of laboratory or field work per week, dealing with the identification, classification, peculiarities, and economic uses of important seedbearing plants. This course deals especially with the local flora of both fall and spring, and with such plants of distant distribution as enter largely into world commerce. ASSISTANT PROFESSOR SLAGG

35. NATURE STUDY. Second semester. Three credits.

Two lectures and one field trip each week, dealing with the recognition, habits, peculiarities, and uses of large numbers of local plants and animals; also, some study of the features of the earth's surface, of the

weather, and of the phenomena of the heavens. The course is designed especially for teachers. (See also Teachers College bulletin.)

ASSISTANT PROFESSOR SLAGG

41-42. INTRODUCTION TO GEOLOGY. Both semesters. Three credits each semester.

Lectures, readings, discussions, and field trips, dealing with earth materials, earth structures, and earth forces, and a more specific study of their physiographic expression in Europe and North America. Special attention is given to local geology. This course is not open to freshmen.

ASSISTANT PROFESSOR SLAGG

45. WEATHER AND CLIMATE. First semester. Three credits.

This course includes a study of the elements of weather, and of world climates, with especial consideration of the controlling influence of climate in relation to the distribution, character, and activities of living things, particularly man.

ASSISTANT PROFESSOR SLAGG

1e-2e. Bacteriology. Two credits each semester.

65-66e. ORGANIC EVOLUTION. Two credits each semester.

67e-68e. General Botany. Two credits each semester.

PRE-MEDICAL MAJOR COURSE

Students planning to study medicine should complete at least three years of the following course before entering the medical school. Completion of the entire four years is strongly recommended.

FRESHMAN YEAR

	Credit hrs. per semester
General Biology, 1-2	4
General Inorganic Chemistry, 3-4..	7
German or French	3 or 4
R. O. T. C. and Physical Training..	2
	16 or 17

JUNIOR YEAR

	Credit hrs. per semester
Vertebrate Anatomy and Embryology	4
Organic Chemistry, 7-8	3
Light, 3 (First Semester)	4
Mathematics or Rhetoric	3 or 4
Group Elective	3
	17 or 18

SOPHOMORE YEAR

	Credit hrs. per semester
Quantitative Analysis, 5-6	4
General Physics, 1-2	4
German or French	3
Rhetoric or Mathematics	3 or 4
R. O. T. C. and Physical Training..	2
	16 or 17

SENIOR YEAR

	Credit hrs. per semester
Biology	3 or 4
Electives to make a total of 128 hours for the four years.	

Group electives must include six semester hours in each of the following: History, Economics or Political Science; Psychology or Sociology; Literature or Speech.

CHEMISTRY

PROFESSOR SIMMONS, ASSISTANT PROFESSORS SCHMIDT, SCHAEFER AND COOK,
MR. ANDERSON, MR. HAAS

Major: Forty hours of Chemistry. The following courses or equivalent must be included: 3, 4, 5-6, 7-8, 9-10, 13-14.

Other Requirements: Literature, 6 hrs.; Sophomore Mathematics, 10 hrs.; Psychology or Sociology, 6 hrs.; History, Political Science, or Economics, 6 hrs.; Biology, 8 hrs.; Physics, 8 hrs.; equivalent of 2 years of German.

General Final Examination: All seniors majoring in chemistry will be required to pass a general final examination at the close of the first semester, on all the work they have taken in the department in the previous three and one-half years. This becomes effective with the graduating class of June, 1931.

CHEMICAL COURSE

FRESHMAN YEAR

	Credit hrs. per semester
General Chemistry, 3 and 4.....	7
Mathematics	4
Rhetoric	3
Physical and Military Training ...	2

JUNIOR YEAR

	Credit hrs. per semester
Organic Chemistry	3
Physics	4
Modern Language	3
Chemical Calculations	1
Electives	

SOPHOMORE YEAR

	Credit hrs. per semester
Quantitative Analysis	4
Biology	4
Mathematics	5
Modern Language	3 or 4
Physical and Military Training ...	2

SENIOR YEAR

	Credit hrs. per semester
Organic Chemistry	3
Physical Chemistry	4
Electives	

1-2. GENERAL INORGANIC CHEMISTRY. Both semesters. Four credits each semester.

Students who intend to major in chemistry, or who are taking the pre-medical course, should take, not chemistry 1 and 2, but chemistry 3 and 4. Three recitations and three hours of laboratory work each week.

3. GENERAL INORGANIC CHEMISTRY. First semester. Seven credits. This course is designed for those majoring in chemistry or taking the pre-medical course. Four recitations and nine hours of laboratory work a week.

4. QUALITATIVE ANALYSIS. Second semester. Seven credits. A study of the separation and identification of the common cations and anions. Four recitations and nine hours of laboratory work a week.

5-6. QUANTITATIVE ANALYSIS. Both semesters. Four credits each semester.

One lecture and 9 hours of laboratory work per week. The first semester's work deals entirely with gravimetric analysis, and related theoretical principles. The second semester's work is devoted to volumetric methods, alkalinity, acidimetry, oxidation, reduction and precipitation processes. Considerable emphasis is placed on laboratory technique and stoichiometry throughout the year's work. Prerequisite, 4.

ASSISTANT PROFESSOR COOK

7-8. ELEMENTARY ORGANIC CHEMISTRY. Both semesters. Three credits each semester.

This course covers the elements of organic chemistry, including aliphatic and aromatic compounds. Laboratory work includes preparation and purification of typical compounds, together with a study of their properties. It satisfies pre-medical requirements in organic chemistry. Pre-Dental and Home Economics students may also enroll. Required of all students majoring in chemistry. Prerequisite, 2. Two recitations and three hours of laboratory work each week.

ASSISTANT PROFESSORS SCHMIDT AND COOK

9-10. ADVANCED ORGANIC CHEMISTRY. Both semesters. Three credits each semester.

Recent discoveries and theories of organic chemistry are discussed. Study of the text is supplemented by required reference reading in the library. Laboratory work includes ultimate analysis, identification of organic compounds, and preparation of various compounds on a larger scale than in elementary organic chemistry. Required of all students majoring in chemistry. Prerequisite, 8. Two recitations and three hours of laboratory work each week.

ASSISTANT PROFESSORS SCHMIDT AND COOK

***11-12. INDUSTRIAL ANALYSIS.** Both semesters. Three credits each semester.

The course covers special methods of analyses of technical products, iron and steel, alloys, mineral and vegetable oils, agricultural materials, fats, waxes, foods, boiler water and its treatment, and drinking water. Nine hours of laboratory work per week. Prerequisite, 6.

ASSISTANT PROFESSOR COOK

***13-14. PHYSICAL CHEMISTRY.** Both semesters. Five credits each semester.

A study of the properties of gases, liquids, solids, solutions, and chemical equilibrium. The solution of problems is an important part of the class work. The laboratory work consists of physical-chemical measurements. Three recitations and six hours of laboratory work each week. Prerequisite, 6 and 8 and Physics 1-2.

ASSISTANT PROFESSOR COOK AND MR. HAAS

***15-16. CHEMISTRY OF RUBBER TECHNOLOGY.** Both semesters. Four credits each semester.

The course embraces a study of the following topics: crude rubber; analysis of vulcanized compounds; milling; vulcanizing; physical testing; compounding; accelerators; theories of vulcanization; synthetic rubber; constitution of rubber; reclaimed rubber; substitutes. Two recitations and six hours of laboratory work each week. Prerequisite, 8.

PROFESSOR SIMMONS

17-18. CHEMICAL CALCULATIONS. Both semesters. One credit each semester.

This course will deal with the solution of selected chemical problems, employing graphic methods and the calculus.

MR. HAAS

32-33. ENGINEERING CHEMISTRY. ASSISTANT PROFESSOR SCHAEFER

34. METALLURGY OF IRON AND STEEL. ASSISTANT PROFESSOR SCHAEFER
Courses 32-33, 34 are given only for students taking Engineering. For description, see bulletin of the College of Engineering and Commerce.

THE UNIVERSITY OF AKRON

ECONOMICS AND SOCIOLOGY

PROFESSOR DAVIS, ASSOCIATE PROFESSOR HAWTHORN,
ASSISTANT PROFESSOR ANTHONY, MR. KING, MR. DONLEY

Major: Two majors are offered: one in Economics and one in Sociology. The minimum for each is 24 hours. For required group-electives see statement on introductory pages of this bulletin.

General Final Examination: Seniors majoring in this department are required to pass a general final examination covering all the courses they have taken in their major subject.

ECONOMICS

PROFESSOR DAVIS, ASSISTANT PROFESSOR ANTHONY

1de. PRINCIPLES OF ECONOMICS. First semester. Three credits.

This course covers the basic principles and concepts in economics; the production, consumption, and distribution of wealth. This course or its equivalent is required for entrance to any other course in economics. Students planning to major in economics should take this course in their sophomore year.

2. PRINCIPLES OF ECONOMICS. Second semester. Three credits.

This course gives an introduction to labor organization and labor problems, money, credit and banking, international trade and foreign exchange, economic crises, transportation, agricultural problems, social programs, public receipts and expenditures. This course is a prerequisite for all advanced courses in economics.

*3-4. FOREIGN TRADE AND FOREIGN EXCHANGE. Both semesters. Three credits each semester.

Recent tendencies in the foreign trade of the United States, the principle of comparative cost, the balance of trade, ocean shipping, the technique of handling and financing foreign trade, the fundamentals of foreign bills of exchange, import and export credits, gold movements and the influence of investment and speculation, international creditor and debtor aspects, and governmental interference with rates of exchange and foreign trade. Prerequisite, 1-2.

*10. MONEY AND BANKING. Second semester. Three credits.

The principles and functions of money, credit and banking, credit instruments, credit and banking institutions, with especial attention to the Federal Reserve System. Prerequisite, 1-2.

*5de. CORPORATION ORGANIZATION AND FINANCE. First semester. Three credits.

The different forms of business organization; the formation, promotion, and financial policies of corporations; nature and elements of capitalization, varieties of securities, methods of underwriting, distribution of profits, financing, failure and reorganization. Prerequisite, 1-2.

***6de. INVESTMENTS.** Second semester. Three credits.

This course deals with the nature, principles, classification and technique of investment; real estate loans; national, state and municipal bonds; investment analysis; railroad, public utility, industrial and financial institution securities. Prerequisite, 1-2.

***7. LABOR PROBLEMS.** First semester. Three credits.

A study of labor organization and labor legislation in America, the conflict between employers and employees, the underlying causes, the efficiency and welfare of the worker, and the various voluntary and legal methods employed by laborers, employers, and the public in an attempt to promote industrial peace. Prerequisite, 1-2.

***8. ECONOMIC THEORY.** Second semester. Three credits.

This course deals with some of the more important problems of economic theory as applied to the factors and functions of production, capital and capitalization, value and price, wages, interest, rent and profits, price theories, and theories of the business cycle. Required of all majors in economics. Prerequisite, 1-2. Given in 1931-1932 and alternate years.

***15-16. ECONOMICS SEMINAR.** Both semesters. One credit each semester. Open to advanced students majoring in Economics.

The following courses offered in the College of Engineering and Commerce are of special value to students majoring in Economics. Such students are required to include Statistics as a part of their major, and are urged to choose all the rest of these courses in their free electives. For descriptions of courses prerequisite to these, see College of Engineering section of general catalog, or the bulletin of that college.

20. COMMERCIAL AND INDUSTRIAL GEOGRAPHY. First semester. Three credits.

This introductory course develops a clear conception of environmental elements such as climate, land forms, soils, mineral resources, and native vegetation, and shows their influence upon man's economic activity. It analyzes the physical factors which constitute the basis of trade, the determinates of population movements, and the causes of international strife. Required of all Commerce students.

23. ECONOMIC DEVELOPMENT OF THE UNITED STATES. Second semester. Three credits.

A short study is made of those features in England which have influenced the industrial life in the United States. Such topics are considered as exploration and settlement, territorial acquisition, land policies, population growth, growth of commerce, crises, industrial combination and conservation, origin and development of banking institutions and railroad systems, tariff, labor unions, and government regulation of trade. Required of all Commerce students.

30-31. ACCOUNTING. First and second semesters. Three credits each semester.

This course introduces the student to the details of business management. The recording of important transactions such as the acquisition

of assets and their depreciation, the borrowing of money, the incurring of expenses, the making of purchases and sales, are considered. Attention is directed to the balance sheet and the statement of profit and loss, their construction, interpretation, and use of each. Required of all Commerce sophomores.

53. TRANSPORTATION. Second semester. Three credits.

A study is made in this course of the American transportation system from the points of view of the economist, the shipping public, and the transportation administrator. The course takes up the part played by transportation in the production, exchange, and distribution of wealth, service, rate making, valuation, and federal regulation. Prerequisite, Economics A 1-2. Given in 1931-32 and alternate years.

55. RISK BEARING AND INSURANCE. Second semester. Three credits.

An examination is made of the many risks in our economic order, and of the methods, devices, and institutions which have evolved to deal with these risks. Special attention is given to the risk-bearing activities of such institutions as speculative exchanges and insurance companies. Insurance in all its applications is emphasized. Prerequisite, Economics A 1-2. Given in 1931-32 and alternate years.

76. ELEMENTS OF PUBLIC FINANCE. Second semester. Three credits.

This course aims to give the student a knowledge of the principles that should guide the city, state, or nation in raising and expending revenue. The sources of revenue, principles of taxation, governmental securities, fields of expenditure, and control of expenditures, are examined. Prerequisite, Principles of Economics and one course in Finance. Given in 1930-31 and alternate years.

81. MARKETING. First semester. Three credits.

Among the topics covered in this course are the functions of marketing, middlemen and their place in the market structure, retail types and policies, consumer and producer co-operation, market finance, associative activities, cost of marketing, prices and price factors. Open to juniors and pre-juniors. Prerequisite, Economics A 21-22.

92. PRINCIPLES OF ADVERTISING. Second semester. Three credits.

This course treats the problems and scope of advertising and its place in business, human aspects of the market, appeals, presentation of appeals, media, and special fields of advertising. Class work is supplemented by special problems. Open to pre-juniors and juniors.

SOCIOLOGY

†ASSOCIATE PROFESSOR HAWTHORN, (ASSISTANT PROFESSOR ANTHONY, MR. KING, AND MR. DONLEY, second semester 1929-1930)

101. INTRODUCTORY SOCIOLOGY. First semester. Three credits.

This is a foundation course in the basic concepts and methods of sociology. It includes systematic surveys of the various fields of sociology; the origin, structure, evolution, and control of human society; and applications of sociology to typical social problems.

†On leave second semester 1929-30.

✓ 2de. SOCIAL PATHOLOGY. Second semester. Three credits.

Topics considered are: criminology; conditions, factors, and types of criminality; agencies in treatment of crime; family disintegration and divorce; causes of poverty and methods and institutions for its treatment; special field study, and reporting on agencies dealing with crime, poverty, divorce, etc. Prerequisite, 1.

✓ 3. SOCIOLOGY OF PERSONALITY AND LEADERSHIP. First semester. Three credits.

Sociological factors in the formation of personality; struggle for psychic survival and "self-hood" in modern society; prestige, bases and methods of leadership; conservation of genius and talent; problem of "defeated" and maladjusted personalities, will be considered in this course. Prerequisite, 1.

✓ 4. SOCIAL ADJUSTMENT: ITS PRINCIPLES, METHODS, AND AGENCIES. Second semester. Three credits.

A continuation of course 3. An analytical study of personality adjustment processes such as ego saving, impression, expression, socialization, etc.; personality tests; urban personality types; sociological treatment of maladjusted personalities; agencies and institutions of social adjustment. Prerequisite, 3 or its equivalent.

✓ 5. ADVANCED URBAN SOCIOLOGY. First semester. Two credits.

A more advanced and intense study of modern city life: the forces, environments, population movements, processes, that characterize urban society; analyses and interpretations of the factors involved in character building, control of opinion, and social adjustment; recent surveys of urban and rural life; use of surveys and sociological measurements in evaluating and guiding welfare work. Open only to graduate students, and to seniors and juniors who have completed nine credit hours in Sociology. *See Progress*

6. SOCIAL PHILOSOPHIES AND MODERN SOCIAL PROBLEMS. Second semester. Two credits.

A systematic study of such social philosophers as Plato, Seneca, Comte, Spencer, Ward, Tarde, Giddings, and Ross. Application of their thought to social problems of civilization; modern schools of social thought with reference to such modern problems as crime, divorce, family, poverty, population, eugenics, and child welfare; papers and discussions on selected books and articles indicating new trends in social philosophy. Open only to graduate students, and to seniors and juniors who have completed nine credit hours in Sociology.

✓ *7-8. SOCIAL WELFARE AND RESEARCH. Both semesters. One to six credits for the year.

Topics considered in this course are: technique and methods of social welfare and research work; methods used by family case workers, probation officers, scout leaders, "Y" secretaries, settlement house directors, etc.; conferences, group discussions with specialized field practice in city; special research projects. Students specializing in social welfare work will have the opportunity to do supervised field work under the direction of the Family Service Society. Prerequisites, consent of instructor and 1, 2, 3, 4.

*9. SEMINAR. Either semester. One credit.

Reports and discussions on current sociological problems. Limited to upperclassmen majoring in this department who have had at least six hours of Sociology.

ENGLISH

DEAN SPANTON, PROFESSOR PEASE, †MISS MITCHELL, MR. ROBERTS, MR. VANCE, MISS CUSHMAN, MISS FREEDLANDER, MR. STICKNEY, MISS STEVENSON

Major: A minimum of 30 hours, exclusive of 1-2 and courses in Journalism, is required for a major. A major must include courses 27-28, 29-30, 31, two courses from 3, 5, and 6, and selected courses from 32 to 46 inclusive to make a total of at least 30 hours.

Order of Work: Courses 27-28 are prerequisite to the more advanced courses and must be taken in the sophomore year by students desiring to major in English. English History 9-10 must also be taken in the sophomore year.

General Final Examination: Seniors majoring in English are required to pass a general final examination covering all the work taken in the department.

RHETORIC

Freshmen who are found to be inadequately prepared for Rhetoric 1 are required to enter a sub-freshman rhetoric class, without credit.

1d. RHETORIC. Either semester. Three credits.

This course is designed for elementary instruction in English composition. Students are given practice in expressing their own ideas. Attention is devoted particularly to sentence and paragraph structure, and to the writing of short expository compositions.

2d. RHETORIC. Either semester. Three credits.

This course is a continuation of 1. Exposition, description, and narration are included. The student is given much practice in writing in all three, much longer expository papers being required than in Rhetoric 1. Prerequisite, 1.

3d. ADVANCED COMPOSITION. First semester. Three credits.

This course is planned to develop ease of writing in the student. The work consists of short daily themes, with an occasional longer paper, and conferences with the instructor. Prerequisite, 1-2. MISS MITCHELL

5. SHORT STORY WRITING. First semester. Two credits.

The main work of the course is the writing of original short stories based on modern theory and on illustrative readings. The latter include both "classics" and selected stories from current periodicals. Prerequisite, 1-2. Offered in 1931-1932 and alternate years. PROFESSOR PEASE

6. ESSAY WRITING. Second semester. Two credits.

Expositional and descriptive themes will be developed on lines of individual choice. Modern essayists will be studied for illustration of methods and style. Prerequisite, 1-2. Offered in 1931-1932 and alternate years. PROFESSOR PEASE

1e. CORRECTIVE ENGLISH. No credit.

†On leave 1929-30.

LANGUAGE AND LITERATURE

25-26. INTRODUCTION TO LITERATURE: TYPES OF PROSE AND POETRY.
Both semesters. Three credits each semester.

This course stresses literary types and characteristics rather than the historical development of English literature. Types of prose are studied the first semester; types of poetry, the second semester. Prerequisite, 1-2.

MISS MITCHELL, MISS FREEDLANDER, MR. ROBERTS

27-28de. HISTORY OF ENGLISH LITERATURE. Both semesters. Three credits each semester.

The course presents an introductory survey of the great English authors, the chief types of prose and poetry, and the historical backgrounds and tendencies of literary periods. This course, not 25-26, should be elected by students who are majoring in English or who plan to take other courses in literature. Prerequisite, 1-2.

PROFESSOR PEASE

*29. CHAUCER. First semester. Three credits.

The work includes a careful study of the best of the Canterbury Tales and a more rapid reading of other important portions of Chaucer's work. Readings, papers. Prerequisite, 27-28. Given in 1930-1931 and alternating years.

PROFESSOR PEASE

30. HISTORY OF THE ENGLISH LANGUAGE. Second semester. Three credits.

The parallel development of the English language and English history is studied in relation to linguistic sources, changes in form and pronunciation, and the historical conditions and causes leading up to the English language we know today. Prerequisite, 1-2. Given in 1930-1931 and alternate years.

PROFESSOR PEASE

31de. SHAKSPERE. First semester. Three credits.

A study of the development of Shakspeare as a dramatist and his place in the Elizabethan Age and in the history of English literature. Most of the plays are read. Prerequisite, 1-2.

DEAN SPANTON

32. WORD STUDY. Second semester. Three credits.

After a few introductory lectures on language, the work centers in the study of words—their origin, development, significance, and habits. Prerequisite, 1-2.

DEAN SPANTON

*33-34. NINETEENTH CENTURY LITERATURE. Both semesters. Two credits each semester.

This course includes a study of the most important works of the leading British poets (except Tennyson and Browning) and essayists of the nineteenth century. Prerequisite, 27-28.

MR. STICKNEY

*36. TENNYSON AND BROWNING. Second semester. Three credits.

Prerequisite, 1-2 and 25-26 or 27-28. Given in 1930-1931 and alternate years.

PROFESSOR PEASE

38. THE ENGLISH BIBLE AS LITERATURE. Second semester. Three credits. The object of this course is to help the student to see the beauty and power of the Bible as literature; its narrative, exposition, and poetry. Prerequisite, 1-2. Given in 1931-1932 and alternate years. DEAN SPANTON

*39-40. ENGLISH FICTION: DEVELOPMENT OF THE NOVEL. Both semesters. Three credits each semester.

The evolution of the novel, as a distinct type, is followed down from the time of the medieval romances. Emphasis is given to eighteenth and nineteenth century development, with selections, as time allows, from contemporary works. Prerequisite, 27-28. Given in 1931-1932 and alternate years.

PROFESSOR PEASE

*41-42. ENGLISH DRAMA. Both semesters. Two credits each semester. The development of English drama from its origins in the medieval church to the contemporaries of Shakspeare is undertaken for the first semester's work; for the second semester the course follows the chief works and tendencies of seventeenth and eighteenth century drama in England, and the relation they bear to conditions of literature and society of the time. Prerequisite, 27-28 or 25-26. Given in 1930-1931 and alternate years.

PROFESSOR PEASE

*44de. THE MODERN DRAMA. Second semester. Three credits.

This course is a study of the principal dramatic writers from the nineteenth century to the present time. Lectures, readings, and papers. Prerequisite, 25-26 or 27-28.

MISS MITCHELL

45-46. AMERICAN LITERATURE. Both semesters. Three credits each semester.

After a somewhat rapid survey of the literature of the Colonial and Revolutionary Periods, the work centers in a study of the leading poets and prose writers of our later literature. Prerequisite, 1-2.

PROFESSOR PEASE

47. VERSIFICATION. First semester. Two credits.

This course includes the study of style and technique in a few major English poets, a study of the forms of verse, and numerous exercises in writing original verse covering the more important forms. Correct analysis and appreciation of poetic form are the principal aims of the course, whose value will be more in literary appreciation than in actual production of poetry. Prerequisite, 1-2. Given in 1931-1932 and alternate years.

PROFESSOR PEASE

48. RECENT POETRY. Second semester. Two credits.

This course covers the movements and best examples of both British and American poetry during the last two generations. Significant changes of the late nineteenth century are studied in relation to their significance and their later effect. Prerequisite, 1-2. Given in 1931-1932 and alternate years.

PROFESSOR PEASE

49. GREEK MASTERPIECES THROUGH ENGLISH TRANSLATIONS. First semester. Three credits.

A careful study is made of the various forms of Greek literature and the chief work in the fields of epic and lyric poetry, the drama, history, and philosophy. Prerequisite, 1-2.

50. LATIN MASTERPIECES THROUGH ENGLISH TRANSLATIONS. Second semester. Three credits.

This course is a continuation of 49, which is prerequisite to it.

60. USE OF THE LIBRARY. Second semester. Two credits.

The work includes a study of the card catalog, indexes, general reference books, and other bibliographical aids designed to help the student do efficient reference work for himself. Each student will work out a bibliography on some subject in which he is particularly interested. Prerequisite, 1-2.

MISS CUSHMAN

81-82. ENGLISH COMPOSITION. (For Engineering students.)

85-86. ENGLISH LITERATURE. (For Engineering students.)

Courses 81-82, 85-86 inclusive, are given only for students in co-operative courses. For description see under English in the College of Engineering and Commerce.

JOURNALISM

MR. VANCE

3-4e. EDITING. One credit each semester.

15. NEWS WRITING. First semester. Three credits.

Members of this class form the reporting staff of The Buchtelite, semi-weekly student newspaper. The class meets two periods a week, and the third credit is given for laboratory work. Prerequisite, 1-2.

16. NEWS WRITING. Second semester. Three credits.

This course may be taken either before or after 15. Members of the class report for The Buchtelite and meet two periods a week for lectures, reports, and discussions. Prerequisite, 1-2.

*17-18. EDITING. Both semesters. Two credits each semester.

Members of this class edit The Buchtelite, official student newspaper. Problems of headline writing, copyreading, and makeup are studied. Prerequisite, 15 and 16, or their equivalent.

19. HISTORY OF JOURNALISM. First semester. Two credits.

Early and modern newspapers, and some of the leading journalists of America, are studied through lectures, assigned reading, and reports. Prerequisite, 1-2.

20. FEATURE WRITING. Second semester. Two credits.

The writing of special feature articles for newspapers and magazines will be studied, with especial attention to the style and construction of these articles. Students will be urged to submit articles for publication. The course includes textbook study. Prerequisite, 1-2.

1e-2e. NEWS WRITING AND CONTEMPORARY JOURNALISM. Three credits each semester.

FRENCH

(See MODERN LANGUAGES)

GERMAN

(See MODERN LANGUAGES)

GREEK AND LATIN

†PROFESSOR ROCKWELL, (MISS ALLAMAN, MISS STURDEVANT, JOHN LEWIS
Second semester 1929-1930)

GREEK

Minor: A minor in Greek may be taken with a Latin major.

General Final Examination: Seniors majoring in this department are required to pass a general final examination covering all the courses they have taken in the department.

1-2. WHITE'S GREEK BOOK AND THE GOSPEL OF MARK. Both semesters.
Four credits each semester.

Special emphasis is placed on the structure of the Greek verb and the synopsis of tenses.

3. SELECTIONS FROM PLATO. First semester. Three credits.

Special study is made of Socrates' position in philosophy and of the foundation he laid for modern thought. Prerequisite, 1-2. Not offered in 1930-1931.

4. SELECTIONS FROM HOMER'S ODYSSEY. Second semester. Three credits. Homer's language, style, and times are investigated. Prerequisite, 3. Not offered in 1930-1931.

49. GREEK MASTERPIECES THROUGH ENGLISH TRANSLATIONS. First semester. Three credits.

A careful study is made of the various forms of Greek literature and the chief works in the fields of epic and lyric poetry, the drama, history and philosophy.

CLASSICAL ARCHAEOLOGY

Courses 11 and 12 will count toward either major offered in this department.

11-12. GREEK SCULPTURE. Both semesters. Three credits each semester. The early Greek schools are studied in their historical and art relations, and later the six Greek masters and the Hellenistic period. During the second semester special topics for investigation are assigned to each member of the class. Not offered in 1930-1931.

LATIN

Major: Four units of Latin are required of all students entering freshman Latin. Thirty-two hours (including freshman Latin) constitute a major in Latin.

Minor: The required minor of 18 hours should be taken in Greek, German, French, Spanish, English, History, or Mathematics. The minor, however, is not restricted to these subjects.

Opportunity is given students who have completed the first two years of Latin to take advanced courses in the literature, private life, and prose composition.

1. CICERO'S DE AMICITIA AND OVID'S METAMORPHOSES I AND II. First semester. Four credits.

During the freshman year a careful study is made of sentence construction, idiomatic and rhetorical expressions, and written translations constitute an important feature of the work.

†Died February 16, 1930.

2. **PLINY'S LETTERS, SELECTIONS.** Second semester. Four credits.
Those letters are read which refer to the history and the private life of the times. Prerequisite 1.
3. **LIVY, BOOK XXII.** First semester. Three credits.
Livy's style as a historian and Hannibal's genius as a strategist are emphasized. Prerequisite, 2.
4. **TERENCE'S PHORMIO, HORACE'S ODES AND EPODES.** Second semester. Three credits.
The structure of Terence's play is carefully studied. One recitation is given to the study of Roman private life and translating Latin at sight. Prerequisite, 3.
- *5. **CICERO'S DE OFFICIIS, BOOK III.** First semester. Three credits.
The principles of the different schools of philosophy are taken up in detail and also Cicero's position in reference to the institutional and utilitarian schools. Prerequisite, 4. Not offered in 1930-1931.
- *6. **HORACE'S SATIRES.** Second semester. Three credits.
Horace's practical outlook on life is emphasized. Prerequisite, 5. Not offered in 1930-1931.
50. **LATIN MASTERPIECES THROUGH ENGLISH TRANSLATIONS.** Second semester. Three credits.
This course is a continuation of Greek 49.

HISTORY

PROFESSOR THOMPSON, ASSISTANT PROFESSOR GARDNER

Major: Thirty hours elected above the freshman year constitute a major in History. Those students working for a major must take the following courses: 1-2, 3-4, 5-6, 7-8, 9-10, 11-12. Most of the courses in this department are year courses; students cannot enter them in the middle of the year, nor is credit given until the year's work is completed.

General Final Examination: All students who are majoring in history and who are candidates for a degree are required to pass a general final examination in the second semester of the senior year. The examination will cover all courses taken in the department and any additional readings, or other assignments.

1-2. **GENERAL SURVEY OF HISTORY.** Both semesters. Three credits each semester.

A general comprehensive view of the history of the world is given in this course, by lectures and collateral reading. Open to all upperclassmen.

PROFESSOR THOMPSON

3-4. **MEDIEVAL HISTORY.** Both semesters. Two credits each semester.
The period from the fall of Rome to the second barbarian invasions is covered in the first semester. The second semester extends to the sixteenth century.

ASSISTANT PROFESSOR GARDNER

*5-6. THE FOUNDATIONS OF MODERN EUROPE. Both semesters. Two credits each semester.

The first semester extends from the sixteenth century to the Treaty of Utrecht. The second semester covers the period to the Congress of Vienna. Prerequisite, 1-2, 3-4. PROFESSOR THOMPSON

7-8. HISTORY OF MODERN EUROPE. Both semesters. Three credits each semester.

The first semester covers the History of Europe from 1815 to 1870. In the second semester special attention is given to present-day problems. Prerequisite, permission of instructor. PROFESSOR THOMPSON

9-10de. HISTORY OF ENGLAND. Both semesters. Three credits each semester.

The first semester of this course covers the formation of the English race and civilization, the growth of the national government, economic and social conditions, and the influence of the church. In the second semester, special attention will be given to constitutional, colonial, and present-day affairs. ASSISTANT PROFESSOR GARDNER

II. AMERICAN HISTORY THROUGH THE CIVIL WAR. First semester. Three credits.

An intensive study is made of the revolt of the colonies, the foundations of the new nation, Jeffersonian and Jacksonian democracy, the new West, and problems leading to the Civil War. ASSISTANT PROFESSOR GARDNER

12. AMERICAN HISTORY SINCE THE CIVIL WAR. Second semester. Three credits.

After a survey of the Reconstructive period a survey is made of the development of such modern problems as the civil service, finance, trusts, railroads, imperialism, and particularly the World War period. ASSISTANT PROFESSOR GARDNER

In addition to the preceding courses at least one of the following will be given each year. Course 25-26 will be offered in 1930-1931.

13-14. AMERICAN COLONIAL HISTORY (two credits). ASSISTANT PROFESSOR GARDNER

17-18. ANCIENT HISTORY (two credits). PROFESSOR THOMPSON

19-20. HISTORY OF CENTRAL AND SOUTH AMERICA AND CANADA (two credits). PROFESSOR THOMPSON

23-24. RENAISSANCE AND REFORMATION (two credits). PROFESSOR THOMPSON

25-26. MODERN HISTORY SINCE THE GREAT WAR (two credits). PROFESSOR THOMPSON

JOURNALISM
(See ENGLISH)

LATIN
(See GREEK and LATIN)

MATHEMATICS

PROFESSOR JONES, ASSISTANT PROFESSORS BENDER AND SILBERFARB,
MISS LIPSCOMBE, MRS. LEIGH

Major: A total of thirty hours (including freshman mathematics) is required for a major.

Minor: Physics is strongly recommended as a minor.

General Final Examination: Students majoring in mathematics are required to pass, in the second semester of their senior year, a general final examination covering all the courses they have taken in the department.

1de. COLLEGE ALGEBRA. Either semester. Four credits.

The course includes a review of elementary algebra, and takes up the study of surds, linear and non-linear equations, proportion, variation, progressions, mathematical induction, binomial theorem, permutations, and combinations.

1e. SUB-ALGEBRA. No credit.

2de. TRIGONOMETRY. Either semester. Four credits.

The following topics are studied: angles and their measurements, the trigonometric functions, fundamental identities, reduction theorems, addition and multiplication theorems, trigonometric equations, the inverse trigonometric functions, the right and oblique triangles, and logarithms.

3-4de. ANALYTIC GEOMETRY. Both semesters. Two credits each semester.

The first half of the course consists of a study of the straight line, circle, conic sections, and polar curves. The second half of the course includes transformation of co-ordinates, higher algebraic and transcendental curves, and a brief treatment of space co-ordinates and loci.

Prerequisite, 1 and 2.

MRS. LEIGH

5de. DIFFERENTIAL CALCULUS. First semester. Three credits.

This course takes up the differentiation of functions of a single variable, maxima and minima, curve tracing, and simple applications to mechanics. Prerequisite, 1 and 2; course 3 must also be taken with course 5.

MISS LIPSCOMBE

6de. INTEGRAL CALCULUS. Second semester. Three credits.

General and special methods of integration, definite integral, partial differentiation, and applications to geometry, mechanics, and physics. Prerequisite, 5.

MISS LIPSCOMBE

*7-8. ADVANCED CALCULUS. Both semesters. Two credits each semester.

The first half of the course deals with partial differentiation, double and triple integrals, development in series, and indeterminate forms. The second half includes such topics as line, surface and space integrals, implicit functions, maxima and minima of functions of several variables, and elliptic and gamma integrals. Prerequisite, 5 and 6. Offered in 1931-1932 and alternate years.

9. HIGHER ALGEBRA. First semester. Three credits.

Selected topics, such as number theory, convergence, divergence and summation of series, determinants, probability, and continued fractions, are taken up in this course. Prerequisite, 1 and 2. Offered in 1930-1931 and alternate years.

ASSISTANT PROFESSOR SILBERFARB

***10. HIGHER GEOMETRY.** Second semester. Three credits.

This course takes up more advanced methods of studying geometrical facts than were possible in courses 3 and 4. Prerequisite, 5 and 6. Offered in 1930-1931 and alternate years.

ASSISTANT PROFESSOR BENDER

***11-12. DIFFERENTIAL EQUATIONS.** Both semesters. Three credits each semester.

This course takes up the solution of the differential equations which arise in the study of geometry and physics. Prerequisite, 5 and 6.

PROFESSOR JONES

13. ASTRONOMY. First semester. Three credits.

A brief course involving a study of the celestial sphere, astronomical problems, astronomical instruments, the solar system, eclipses, the fixed stars, nebulae, and cosmogony. Prerequisite, 1 and 2. Offered in 1930-1931 and alternate years.

PROFESSOR JONES

14. HISTORY OF MATHEMATICS. Second semester. Three credits.

The history of the invention and development of the notions, language, symbols, and methods of elementary mathematics will be studied in this course. Prerequisite, 1 and 2. Offered in 1930-1931 and alternate years.

PROFESSOR JONES

15. MATHEMATICS OF INSURANCE. First semester. Three credit hours.

A brief study of probability; laws of mortality; construction and use of life tables; life annuities; premiums, reserves and policy valuations. Prerequisites, 9 and 58. Offered in 1931-32 and alternate years.

16. THEORY OF EQUATIONS. Second semester. Three credits.

This course takes up topics relating to the solution of equations, such as complex numbers, Newton's and Horner's methods of solving equations, Sturm's functions, determinants, symmetric functions, and elimination. Prerequisite, 5. Offered in 1931-1932 and alternate years.

51-57. MATHEMATICS.

Courses 51-57 inclusive are given only for students in co-operative courses. For description see under Mathematics in the College of Engineering and Commerce.

58de. MATHEMATICS OF FINANCE. Second semester. Three credits.

The study and solution of problems relating to simple and compound interest, annuities, amortization, bond valuation, sinking funds, and depreciation. Prerequisite, 1. This course is required of Commerce students, but may be taken by other students as an elective.

MILITARY SCIENCE AND TACTICS
(See detailed statement on page 44.)

MODERN LANGUAGES

PROFESSOR BULGER, ASSISTANT PROFESSORS REED AND KOTZ,
MISS ROGERS, MISS FANNING

Entrance: Candidates for entrance presenting but one year of Modern Language, with a grade of 85%, may take the second year on trial. If the grade was lower than 85%, they must take the first year over, and will receive only half credit for the work.

Credit for college work in Modern Language is indicated by the following table:

High School credits	Course entered in college	Credit given
1 unit	{ Second year	{ Full credit
	{ First year	{ Half credit
2 units	{ Second year	{ Full credit
	{ First year	{ No credit
3 units	{ Third year	{ Full credit
	{ Second year	{ Half credit
	{ First year	{ No credit
4 units	{ Third year	{ Full credit
	{ Second year	{ No credit

Major: The minimum for a major in this department is 24 hours of German, French, or Spanish, including freshman work.

Minor: The required minor of 18 hours will ordinarily be in one or two other foreign languages.

General Final Examination: Beginning with the class of 1931, majors in this department will be required to pass a general final examination at the end of the last semester at the university. This examination will cover the material of all courses taken in the department and the content matter of outside readings which will be assigned to the student by the head of the department. Such readings will be assigned each year, beginning with the sophomore year. The examination will be both oral and written.

FRENCH

ASSISTANT PROFESSORS REED AND KOTZ, MISS FANNING

1-2de. BEGINNING FRENCH. Both semesters. Four credits each semester. The work in the first semester includes a thorough study of grammar, with special emphasis upon dictation and oral work. In the second semester, work in grammar is continued with the reading of two hundred or more pages of French.

3-4de. SECOND YEAR FRENCH. Both semesters. Three credits each semester. This course reviews grammar and stresses idioms and irregular verbs. It includes the reading of stories and plays, with a required resumé of each written in French. Prerequisite, 1-2.

5-6. THIRD YEAR FRENCH: THE FRENCH NOVEL. Both semesters. Three credits each semester.

The work includes the reading and study of eight or nine leading novels of the nineteenth century. Prerequisite, 3-4.

7-14. **ADVANCED FRENCH.** Both semesters. Three credits each semester. This course will be chosen from the following list: 7-8, The French Drama of the 17th Century; 9-10, Modern Literature; 11-12, A Survey of French Literature; 13-14, French Literature of the 18th Century. Prerequisite 5-6.

19-20. **FRENCH COMPOSITION.** Both semesters. Two credits each semester. This course is designed to aid the student to attain a facility in the use of practical idiomatic expressions and other stylistic peculiarities. Much time is devoted to the translation of English passages based on French models.

MISS FANNING

SPANISH

MISS ROGERS, MISS FANNING

1-2de. **BEGINNING SPANISH.** Both semesters. Four credits each semester. This course is designed to give intensive training in composition, dictation, conversation, and the reading of simple prose.

3-4de. **SECOND YEAR SPANISH.** Both semesters. Three credits each semester.

This course includes a review of grammar, with dictation, conversation, and the reading of several texts. Prerequisite, 1-2.

7-8. **THE SPANISH DRAMA.** Both semesters. Three credits each semester. The first semester includes the study of the Spanish drama of the seventeenth century, followed by the reading of selected plays of the nineteenth century and the present epoch in the second semester. Collateral assignments and reports are required throughout the year, as well as dictation and resúmes in Spanish. Prerequisite, 3-4 or the equivalent with a grade not lower than B. Offered in 1931-1932 and alternate years.

9-10. **THE SPANISH NOVEL.** Both semesters. Three credits each semester. This course includes the reading of Don Quixote and representative works of Spanish novelists of the nineteenth and twentieth centuries. Prerequisite, 3-4, or the equivalent with a grade not lower than B. Offered in 1930-1931 and alternate years.

GERMAN

PROFESSOR BULGER, ASSISTANT PROFESSOR KOTZ

1-2de. **FIRST YEAR GERMAN.** Both semesters. Four credits each semester. This course is designed for beginners and consists of grammar and easy readings, with practice in speaking and writing German.

3-4de. **SECOND YEAR GERMAN.** Both semesters. Three credits each semester.

In this course a review of grammar is given with advanced readings of prose and verse. Special emphasis is put upon the practice of writing and speaking German. Prerequisite, 1-2.

5-14. **ADVANCED GERMAN.** Both semesters. Three credits each semester. At least one of the following advanced courses will be offered; 7-8, Schiller; 9-10, Goethe; 11-12, History of German Literature; 13, Lessing, and 14, Modern Drama; 5, German Daily Life, and 6, The Short Story. Prerequisite 3-4.

ITALIAN

1e-2e. **FIRST YEAR ITALIAN.** Four credits each semester.

MUSIC

(See detailed statement on page 47.)

PHILOSOPHY

†PROFESSOR OLIN, (PROFESSOR HAYES, MR. DONLEY, AND MRS. KINCAID
Second semester 1929-1930)

Major: A full major is given in the department, consisting of Philosophy, Ethics, Psychology, Logic. Twenty-four hours are required.

Students majoring in the department must take the work in the following sequence: Logic, freshman or sophomore year; Psychology, sophomore year; Introduction to Philosophy, junior year; Problems of Philosophy, senior year; Ethics, junior or senior year.

1-2. **PSYCHOLOGY.** Both semesters. Three credits each semester. This is an introductory course covering the whole subject. Experiment and seminar work accompany the text. The text is *Essentials of Psychology*, by Pillsbury. Discontinued after 1929-30. For courses offered after 1929-30 see under Psychology heading.

*3-4. **ETHICS.** Both semesters. Three credits each semester. This is a study of the ideals and standards of conduct, the development of the individual life, and the laws of moral progress. Textbooks: MacKenzie and Valentine. Prerequisite, Psychology 1-2.

*5-6. **INTRODUCTION TO PHILOSOPHY.** Both semesters. Three credits each semester. This is an elementary course in the history and scope of Philosophy, the nature of reality and knowledge, the categories of the understanding, and the relation of consciousness to the external world. Textbook: Fletcher's *Introduction to Philosophy*. Prerequisite, Psychology 1-2.

*7. **PROBLEMS OF PHILOSOPHY.** First semester. Three credits. Prerequisite, 5-6.

10. **LOGIC.** Second semester. Three credits. Logic deals with the science of reasoning and the methods of research. It should be taken in the sophomore year, but is open to all upper classmen.

†On leave a part of second semester.

PHYSICAL EDUCATION

PROFESSOR FRED S. SEFTON, *Director*; ASSISTANT PROFESSOR BLAIR, MR. SMITH, MR. LIPPS, MISS DUNCKLEY, DR. ROBART, MRS. FRAZER

All freshman students and all sophomore men are required to take two hours of physical training each week.

The physical education program is based on the progressive system, beginning with the less difficult work in the freshman year and working up to the more highly organized work in the sophomore year.

PHYSICAL TRAINING FOR MEN

The men's physical education program is divided into three parts: viz., a Fall outdoor season, a Winter indoor season, and a Spring outdoor season.

The work of the Fall season consists of those sports which are most popular in the Autumn, such as football modified to suit the physical conditions of the students, soccer ball, and speedball. In addition there is a series of efficiency tests aiming to ascertain the muscular ability and coordination of the student.

The Winter indoor program consists of tactics, calisthenics, apparatus work, and the popular indoor sports, such as basketball and volleyball. In addition there are special classes in boxing and in corrective exercise.

The Spring outdoor program consists of special track instruction for the students, the popular spring sports such as baseball, tennis, and volleyball, and a series of efficiency tests aiming to ascertain the degree of improvement the student has made during the year.

PHYSICAL TRAINING FOR WOMEN

There is a similar division in the physical education program for women. During the Fall season the time is given to such outdoor sports as hockey and soccer, leading up to the class tournaments at the close of the season.

From Thanksgiving on is the indoor season, during which class work in the gymnasium and various indoor sports are stressed, and there are class and intra-mural tournaments in basketball and volleyball.

The Spring season is devoted to such outdoor sports as baseball, track, tennis, and volleyball, ending with class tournaments in baseball.

COURSES OFFERED

1-2. PHYSICAL TRAINING FOR FRESHMEN. Both semesters. Two hours a week. One credit each semester.

A required course for all first year students, men and women.

3-4. PHYSICAL TRAINING FOR SOPHOMORE MEN. Both semesters. Two hours a week. One credit each semester.

A required course for all second year men.

PHYSICAL EDUCATION. Evening Session. No credit.

PHYSICS

PROFESSOR HOUSEHOLDER, ASSISTANT PROFESSOR ROLLEFSON, MR. FOUTS

In order to adapt the instruction in physics to the regular four credits per semester schedule, the general introductory course is distributed over three semesters, designated as Physics 1, Physics 2, and Physics 3. The first and third courses are given in the first semester, and the second course in the second semester. These courses may be taken in any order, but the student will find it necessary to complete all three courses in order to get a general survey of the subject. Neither Physics 1 nor Physics 2 is open to junior or senior students. For such students Physics 19 and 20 are provided, courses in which more emphasis is placed upon the application of physics, and for which the freshman mathematics is a prerequisite.

The general survey courses are followed by Physics 4 to 7 inclusive, which are more advanced and detailed treatments of the separate divisions of physics. These courses are followed by the much more advanced and theoretical courses, Physics 11 to 16 inclusive, which require advanced mathematics and are open only to students who have had the preceding courses or their equivalent. These courses may be used for graduate credit. Physics 8 to 10 inclusive are described in the list of courses for instruction. Courses 51 to 56 inclusive are more technical in nature, and are given on the co-operative basis for students in the College of Engineering and Commerce.

Major: Students wishing to major in Physics are required to complete a minimum of 32 hours in Physics, 18 hours in Mathematics, and 8 hours in Chemistry. In addition to the standard requirements for the freshman year, the electives must include 6 hours in Literature or Speech; 6 hours in History, Political Science, or Economics; 6 hours in Psychology or Sociology; and two years of foreign language. While the selection of the minor is left to the student, it is recommended that the prerequisites in Mathematics and Chemistry be used to satisfy this requirement, and thus provide more freedom in the selection of free electives.

General Final Examination: The required general final examination covering the major work will be given at the close of the week just preceding the regular final examinations in June of the senior year. Such term papers on laboratory reports as may be required for graduation must be presented and approved before the student is eligible to take the examination, which in itself will be oral.

In order to assist the student in arranging his work, the Physics course is outlined by semesters:

FRESHMAN YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Rhetoric 1	3	Rhetoric 2	3
Human Biology	3	Problems of Citizenship	3
Physics 1	4	Physics 2	4
Mathematics 1	4	Mathematics 2	4
Physical and Military Training... 2		Physical and Military Training.... 2	

SOPHOMORE YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Physics 3	4	Physics 4	4
Mathematics 3	2	Mathematics 4	2
Mathematics 5	3	Mathematics 6	3
German 1	4	German 2	4
Physical and Military Training... 2		Physical and Military Training.... 2	
Electives	2	Electives	2

JUNIOR YEAR

	First Semester	Cr. Hrs.		Second Semester	Cr. Hrs.
Physics 5	4	Physics 6	.....	4
Chemistry 1	4	Chemistry 2	.....	4
German 3	3	German 4	.....	3
Electives	5 or 6	Electives	.....	5 or 6

SENIOR YEAR

	First Semester	Cr. Hrs.		Second Semester	Cr. Hrs.
Physics 11	2	Physics 12	.....	2
Electives	14	Electives	.....	14

While this course is not absolutely rigid, it is believed that by following it the student will work more efficiently and satisfactorily.

1. GENERAL INTRODUCTORY PHYSICS: MECHANICS. First semester. Four credits.

Two lectures and two laboratory-recitation periods per week.

PROFESSOR HOUSEHOLDER AND ASSISTANTS

2. GENERAL INTRODUCTORY PHYSICS: HEAT, ELECTRICITY, MAGNETISM. Second semester. Four credits.

Two lectures and two laboratory-recitation periods per week.

PROFESSOR HOUSEHOLDER AND ASSISTANTS

3. GENERAL INTRODUCTORY PHYSICS: LIGHT AND SOUND. First semester. Four credits.

Two lectures and two laboratory-recitation periods per week.

PROFESSOR HOUSEHOLDER AND ASSISTANTS

19-20. GENERAL PHYSICS FOR JUNIOR AND SENIOR STUDENTS WHO HAVE NOT HAD PHYSICS 1, 2, AND 3. Four credits per semester.

As stated in the introductory paragraph, this course is for junior and senior students who have not taken the general introductory course in the freshman or sophomore year. It is somewhat more advanced than the other courses, and requires the freshman mathematics. Three recitations and one laboratory period per week.

ASSISTANT PROFESSOR ROLLEFSON

4. HEAT. Second semester. Four credits.

Three recitations and one laboratory period per week. MR. FOUTS

5. ELECTRICITY AND MAGNETISM. First semester. Four credits.

Three recitations and one laboratory period per week.

ASSISTANT PROFESSOR ROLLEFSON

6. ADVANCED ELECTRICITY AND MAGNETISM. Second semester. Four credits.

Two recitations and two laboratory periods per week.

ASSISTANT PROFESSOR ROLLEFSON

7. LIGHT. First semester. Four credits.

Two recitations and two laboratory periods per week.

PROFESSOR HOUSEHOLDER

8. ELECTRICAL THEORY OF MATTER. Second semester. Two credits.
A review of the experimental evidence that has led to the establishment of the electron theory; its development, and its use in explanation of the phenomena of everyday life.
PROFESSOR HOUSEHOLDER

9-10. ADVANCED PHYSICAL MEASUREMENTS. Two credits per semester.
This is a laboratory problem course covering the determination of some of the more important physical constants. The work will be of an individual character and will be given to emphasize the art of careful laboratory work.

11-12. ADVANCED MECHANICS. Two credits per semester.
Two lectures per week. A mathematical treatment of the problems of dynamics.
PROFESSOR HOUSEHOLDER

21-22. THERMODYNAMICS. Two credits per semester.
An advanced treatment of the problems of thermodynamics consisting of two lectures per week. This course will be given in alternate years only.
ASSISTANT PROFESSOR ROLLEFSON

23-24. INTRODUCTION TO THEORETICAL PHYSICS. Two credits per semester.
A beginning course in mathematical physics to be given alternately with Physics 21 and 22.
ASSISTANT PROFESSOR ROLLEFSON

The following courses are for students in the College of Engineering and Commerce.

51-52. FRESHMAN MECHANICS.
Three recitations and four hours of laboratory work per week.
MR. FOUTS AND ASSISTANTS

53-54. SOPHOMORE MECHANICS.
Four recitations and four hours of laboratory work per week.
ASSISTANT PROFESSOR ROLLEFSON AND ASSISTANTS

55. HEAT.
Three recitations and four hours of laboratory work per week.
MR. FOUTS

56. WAVE MOTION, SOUND AND LIGHT.
Three recitations and four hours of laboratory work per week.
PROFESSOR HOUSEHOLDER

POLITICAL SCIENCE

PROFESSOR CRECRAFT, ASSISTANT PROFESSOR SHERMAN, MR. KING

Courses in Political Science are offered to meet the following needs: (1) a better understanding of the responsibilities of citizenship and a better comprehension of government as a necessary part of a liberal education; (2) a stimulation of interest in a possible career in public service; and (3) a better pre-professional training for law, teaching, commerce and industry, and journalism.

Students majoring in political science are urged to select, among their free electives, some of the courses offered in the Commerce department, especially the following: Accounting, Statistics, Business Administration, and Elements of Public Finance. For a description of these courses, see the bulletin of the College of Engineering and Commerce.

Major: Twenty-four hours selected from any courses offered by the department exclusive of the freshman required course in Problems of Citizenship.

Minor: Eighteen hours (exclusive of group electives) in one or two departments other than the major department. These departments ordinarily will be history, economics, and sociology. Selection of minor subjects must be approved by the department.

General Final Examination: Seniors majoring in Political Science are required to take course 27 the first semester, and at some time during the second semester are required to pass a general final examination covering all the work they have taken in the department.

I. ELEMENTARY COURSES—PRIMARILY FOR FRESHMEN

1. PROBLEMS OF CITIZENSHIP. Either semester. Three credits. A group of selected problems of citizenship with equal emphasis on social, economic, and political phases. An introductory course in political and social science, based on texts, readings, and discussions. Required of all freshmen in the Liberal Arts course. May not be taken to satisfy a minor requirement in political science.

2. AMERICAN GOVERNMENT. Either semester. Three credits. This course gives the student an introductory survey of the basic principles and the practical administration of the American Government. Although required only of Teachers College and Commerce freshmen, the course may be taken by Arts students and be counted toward a major or minor requirement in political science. This is the only elective course in the department open to freshmen.

II. INTERMEDIATE COURSES—PRIMARILY FOR SOPHOMORES

At the beginning of his sophomore year all courses in the intermediate group are open to the student, provided he has had Problems of Citizenship.

4. COMPARATIVE GOVERNMENT. Second semester. Three credits. This course is to introduce the student to the essential features of the government and politics of foreign lands. Open to all upper classmen.

ASSISTANT PROFESSOR SHERMAN

5-6. MUNICIPAL GOVERNMENT AND ADMINISTRATION. Both semesters. Three credits each semester.

This course emphasizes municipal government the first semester, and municipal administration the second. Open to all upper classmen.

ASSISTANT PROFESSOR SHERMAN

7. AMERICAN POLITICAL PARTIES. First semester. Three credits. This course aims to give the student a general survey of political parties in the United States, including their structure, composition, problems, and services. Open to all upper classmen.

MR. KING

III. ADVANCED UNDERGRADUATE COURSES

10. LEGISLATIVE PROCEDURE. Second semester. Three credits. This course alternates with Public Administration. Prerequisite, Problems of Citizenship together with another of the elementary or intermediate courses in political science. Offered in 1930-1931 and alternate years.

14. PUBLIC ADMINISTRATION. Second semester. Three credits.
This course is intended to give an understanding of the strictly administrative work of the federal and state governments. It is given every other year, alternating with Legislative Procedure. Prerequisite, Problems of Citizenship together with another of the elementary or intermediate courses in political science. PROFESSOR CRECRAFT

19. CONSTITUTIONAL LAW. First semester. Three credits.
A study of the U. S. Constitution based on the case book method. Text: Evan's Cases on Constitutional Law, Second Edition. Prerequisite, Problems of Citizenship together with another of the intermediate or elementary courses in political science. PROFESSOR CRECRAFT

20. GOVERNMENT AND BUSINESS. Second semester. Three credits.
This course presents the subject of government from the point of view of its relation to business and occupational interests. It is a general survey of all that government does to promote and control business life. Prerequisite, Problems of Citizenship together with another of the elementary or intermediate courses in political science, or a course in commerce. PROFESSOR CRECRAFT

13. GOVERNMENT AND SOCIAL WELFARE. First semester. Two credits.
The subject of government is presented in this course from the point of view of its part in promoting social welfare. It is a study of the most important legislative, administrative, and judicial measures which have a direct bearing on the care of defective, delinquent, and dependent classes of society. Prerequisite, Problems of Citizenship together with an intermediate course in political science, an elementary course in same, or a course in sociology. PROFESSOR CRECRAFT

21. POLITICAL THEORY. First semester. Three credits.
A study of the content and nature of political thought from the ancients down to the present day. Special emphasis on contemporary theories of government. Prerequisite, Problems of Citizenship together with another of the elementary or intermediate courses in political science. MR. KING

22. MUNICIPAL CORPORATIONS. Second semester. Three credits.
The legal position of the city; relation of city to state; powers, duties, and liabilities of city officers. A case book course in public law. Prerequisite, Problems of Citizenship together with some one additional course in political science from the elementary or intermediate group. This course alternates with Municipal Finance. Offered in 1931-1932 and alternate years. PROFESSOR CRECRAFT

24. MUNICIPAL FINANCE. Second semester. Three credits.
A study of municipal taxation, municipal expenditures, and municipal indebtedness, stressing the point of view of financial administration. Prerequisite, Problems of Citizenship together with some one additional course from the elementary or intermediate group. Offered in 1930-1931 and alternate years. PROFESSOR CRECRAFT

25-26. **INTERNATIONAL RELATIONS.** Both semesters. Three credits each semester. (Course not divisible).

The political and legal aspects of international relations, international policies and organization first semester; international law the second. Prerequisite, Problems of Citizenship together with an elementary or intermediate course in political science. PROFESSOR CRECRAFT

27. **SENIOR SEMINAR.** First semester. Three credits.

This course is required of all seniors majoring in political science. It is intended to prepare the student for his general final examination in his major subject. Readings, reports, and discussions. The general final examination is given at some time during the second semester. PROFESSOR CRECRAFT

26e. **INTERNATIONAL LAW.** Three credits.

13e. **GOVERNMENT OF ENGLAND.** Three credits.

6e. **PROBLEMS IN CITY ADMINISTRATION.** Three credits.

PSYCHOLOGY

PROFESSOR HAYES, ASSISTANT PROFESSOR WOOD

Major: Students majoring in Philosophy are required to include Psychology 1 and 2 in their major.

1. **GENERAL PSYCHOLOGY.** First semester. Three credits.

A course for the preparation of students for a general understanding of the feelings and emotions, motives and reactions of themselves and their fellow beings, and to prepare them for more advanced and specialized courses. Required of all students majoring in Philosophy. PROFESSOR HAYES

2. **APPLIED PSYCHOLOGY.** Second semester. Three credits.

Applications of psychological principles to human behavior. Studies of individual differences and their applications to professional and industrial fields and to individual adjustments. Psychological analyses of unsocial conduct and its underlying causes. Prerequisite, Psychology 1. Required of all students majoring in Philosophy. PROFESSOR HAYES

4. **CHILD PSYCHOLOGY.** First semester. Two credits.

Pre-school child and early elementary grades; original tendencies; play attitudes and educational application; application of instinctive urges in training and control. Prerequisite, Psychology 1.

5. **PSYCHOLOGY OF THE EXCEPTIONAL CHILD.** First semester. Two credits.

Case studies of deviates; methods of treatment; methods of diagnosis; neural instability, precocity, backwardness and feeble-mindedness. Prerequisite, Psychology 1.

8. **EXPERIMENTAL PSYCHOLOGY.** First semester. One credit.

Laboratory experimentation in the field of reactions to various sensory stimuli. Prerequisite, 1.

9. **EXPERIMENTAL PSYCHOLOGY.** Second semester. One credit.

Continuation of course 8. Development of technique of experimentation; more complex reactions. Prerequisite, 1.

10. **EXPERIMENTAL PSYCHOLOGY.** First semester. One credit.
The measurement of rates of learning, motor learning, learning of mazes. Prerequisite, I.
11. **EXPERIMENTAL PSYCHOLOGY.** Second semester. One credit.
Learning of complex material, foreign language, non-sense material, logical associations. Prerequisite, I.
12. **PSYCHOLOGY OF ADOLESCENCE.** Second semester. Two credits.
Problems of pre-adolescence and the adolescence; physical and psychic changes, problems of differentiation in junior and senior high school age. Social and moral changes. Prerequisite, Psychology I.
103. **ADVANCED PSYCHOLOGY.** First semester. Two credits.
A general intensive survey of the fields of psychology especially for graduate students who are majoring in education. Not open to undergraduates. Prerequisite, Psychology I.
104. **MENTAL HYGIENE.** Second semester. Two credits.
Problems of mental health, conditioning of reflexes and their results, mental attitudes, causes and results, inhibitions and orderly associations. Prerequisite, Psychology I.
105. **GENETIC PSYCHOLOGY.** Second semester. Two credits.
Basic course for graduate students in psychology. A knowledge of some biology is advantageous. Analysis of neural and mental reactions of lower order. Simpler processes of learning in man; early mental processes of the infant. Prerequisite, Psychology I.
106. **ABNORMAL PSYCHOLOGY.** Second semester. Two credits.
This course will consist of lectures, discussions and reports dealing with disorders of perception, association, memory, affection, volition, personality, judgment and action, with respect to their respective normal phenomena. Open to graduate students and those whose experience has fitted them for appreciative study in this field.
107. **PSYCHOLOGICAL SYSTEMS.** Second semester. Two credits.
The various theories, definitions and conceptions of psychology will be studied. Some library work will be required in the field of psychic causation and the theories of the subconscious. Prerequisite, Psychology I.
116. **THE PSYCHOLOGY OF CHARACTER TRAITS.** First semester. Two credits.
An attempt is made to attack the problem of character training systematically and without the usual disastrous mixing of sentimentality and artificiality. Ideals and situations, trait actions and specific individual development are the subjects which receive particular attention.

R. O. T. C.

(See MILITARY TRAINING)

SOCIOLOGY

(See ECONOMICS and SOCIOLOGY)

SPANISH

(See MODERN LANGUAGES)

SPEECH

PROFESSOR HAYWORTH, MISS MCEBRIGHT, MR. MENDENHALL

Major: 24 hours including 1 and 3. Students majoring in dramatics are required to take Stage Costuming given by the Art Department.

General Final Examination: Information regarding the general final examination which all students majoring in this department must pass in their senior year may be obtained from the head of the department.

1de. PUBLIC SPEAKING. Either semester. Three credits.
A general course in practical public speaking.

PROFESSOR HAYWORTH, MISS MCEBRIGHT

3. INTRODUCTION TO SPEECH SCIENCE. Either semester. Three credits.
A study of the psychology and anatomy of the organs used in speech; the cultivation of better habits of speech; a survey of speech correction; English phonetics. Required in Teachers College.

9. RADIO SPEAKING. First semester. Three credits.
As much time as is needed will be given to practice in speaking over the microphone. The remainder of the work will be given to preparing material for broadcasting, including announcing, radio plays, sound effects, advertising, program building and preparation of continuity.

PROFESSOR HAYWORTH

12de. ADVANCED PUBLIC SPEAKING. Second semester. Three credits.
The problem of public speaking is divided into various types of speaking required in community life, and each is taken up individually. Some types of speeches studied are: speeches of announcement, introduction, welcome, after-dinner speaking, sales talks, inspirational addresses. During the last six weeks the student is allowed, for the most part, to prepare types of speeches he may find most useful.

PROFESSOR HAYWORTH

13-14. SPEECH COMPOSITION. Both semesters. Two credits each semester.
In this course emphasis is placed on the fine details of speaking, such as speech construction, language, and style. Examples of good speaking will be studied. Offered in 1931-1932 and alternate years.

PROFESSOR HAYWORTH

17-18. THE ORATION. Both semesters. Three credits each semester.
A study of the classic masterpieces of oratory.

MISS MCEBRIGHT

19. DEBATE. First semester. One credit.
A general survey of the principles of argumentation as they are applied to enlightened intercollegiate debating; practice in argumentative speaking; and a survey of the question to be used in intercollegiate debates for the current year.

PROFESSOR HAYWORTH

2Ide. STAGECRAFT. First semester. Three credits.
A study of the development of the stage, kinds of scenery, methods of production, lighting, scene design, and construction of models.

MR. MENDENHALL

22. MAKE-UP. Second semester. Three credits.

Thorough knowledge of all kinds of theatrical make-up, and proficiency in the ability to make-up one's self and others will be expected. Readings, demonstrations, lectures, and laboratory work constitute the course.

MR. MENDENHALL

23-24. ACTING. Both semesters. Three credits each semester.

Readings in the principles of acting; the preparation of different types of roles; theory and practice in acting with a cast.

MR. MENDENHALL

25-26. PLAY WRITING. Both semesters. Two credits each semester. A study of the principles of dramatic composition, and the writing of short plays.

MR. MENDENHALL

29-30. SEMINAR. Both semesters. One or two credits each semester.

Each student will pursue any study acceptable to the instructor. If possible, however, the entire group will study one general problem, a different phase being assigned each member of the seminar.

MR. MENDENHALL

32-33de. INTERPRETATION. Both semesters. Three credits each semester.

Open to students who have had 1 or 3. The work will consist of memorized readings and reading from the printed page. Dialect, humorous, and dramatic readings will be taken up.

MISS MCEBRIGHT

42de. SPEECH CORRECTION. Second semester. Three credits.

A study of the nature and treatment of such functional speech defects as stuttering, lisping, baby talk, foreign accent, and dialect, and of organic defects, such as cleft palate, paretic cases, and malocclusion.

PROFESSOR HAYWORTH

91-92. PUBLIC SPEAKING. For Engineering students only.

For description see College of Engineering bulletin and Engineering section of general catalog.

2. VOICE-SPEECH. Both semesters. Three credits each semester.

44e. PLAY DIRECTING. Three credits.

10e-11e. BUSINESS MEN'S PUBLIC SPEAKING. Two credits each semester.

COMBINATION COURSES

I. AT THE UNIVERSITY OF AKRON

THE ARTS-HOME ECONOMICS COMBINATION COURSE

A combination may be made between the Arts and Home Economics courses by which degrees may be obtained from both schools in a minimum period of five years. This may best be accomplished by spending four years in the Curtis School of Home Economics and an additional year in the College of Liberal Arts. If such combination course be desired, the elective work in the fourth year must be shaped toward the fulfillment of the major and minor requirements in the College of Liberal Arts.

An arrangement is also possible by which the student may spend three years in the College of Liberal Arts and two years in the Curtis School of Home Economics, receiving both degrees. Those planning this combination should consult the Classification Committee at the beginning of the sophomore year in order that the subjects to be taken may be definitely determined, according to the major subject chosen.

By means of a five-year combination course, degrees may be gained from both the School of Home Economics and the Teachers College.

THE ARTS-TEACHERS COMBINATION COURSE

A combination may be made between the Arts and Teachers courses for those expecting to teach. The student who plans for this combination should spend three years in the College of Liberal Arts and two years in Teachers College. The classification Committee will outline with the student the subjects to be taken so as to fit the courses for both degrees. Students planning to teach in Akron should consult the Dean of Teachers College when deciding upon the major, so as to prepare for work in departments needing teachers. All students preparing to do high-school teaching in Akron must complete at least five years of college work.

2. WITH WESTERN RESERVE UNIVERSITY

THE ARTS-LAW COMBINATION COURSE

This course comprises a total of six years, three at the University of Akron and three at the Law School of Western Reserve University. At the end of four years the Bachelor's degree is conferred by the University of Akron for the satisfactory completion of 128 semester hours of work. At the end of six years the student may become a candidate for the degree of Bachelor of Laws at Western Reserve University.

The requirements in Buchtel College of Liberal Arts for the A. B. degree under this plan are: three years' residence; 101 semester hours completed at the University of Akron with an average grade of at least 85%, such work to include all freshman, major, minor and group-elective requirements for the A. B. degree; and sufficient credit from the Law School of Western Reserve University to make a total of 128 semester hours.

3. WITH OTHER PROFESSIONAL OR TECHNICAL SCHOOLS

The University of Akron is also willing to give the opportunity for combination courses with other approved professional or technical schools requiring at least three years of Arts College work for entrance. The approval of such courses rests with the dean of Buchtel College and the committee on classification. In making such combinations, the University of Akron will insist on the fulfillment of the general requirements of three years' residence at Akron; the completion of 96 semester hours at the University of Akron, including all required majors, minors, and group-electives; and the completion of a total of 128 semester hours for graduation.

Students are warned against haphazard work in the University of Akron with the idea that a course chosen at random may be combined with any professional school to which their inclination may later direct them. The choice of the school with which the combination is desired should not be delayed beyond the close of the sophomore year. To be considered a candidate for a degree under the plan of combination courses, a student must make all arrangements with the dean of Buchtel College at or before the close of his junior year. The dean and the committee on classification are at all times ready to assist students in making combinations with reputable professional and technical schools.

CURTIS SCHOOL OF HOME ECONOMICS

PROFESSOR MAXWELL, MISS LATHROP, MISS COUNTS

GENERAL INFORMATION

The Curtis School of Home Economics was established in 1914. It occupies the building known as Curtis Cottage, made possible by gifts from the late William Pitt Curtis, of Wadsworth, Ohio, and from many citizens of Akron. The building houses classrooms and well-equipped laboratories for work in Home Economics.

ADMISSION

The following supplements the statement of general entrance requirements made on introductory pages.

Candidates for unconditional admission must present at least 15 units of secondary school work. No student will be admitted with entrance conditions amounting to more than one unit. Students conditioned in entrance subjects shall not be allowed to carry more than twelve semester hours of college work.

ENTRANCE REQUIREMENTS

English	3	units
Mathematics (Algebra I, Pl. Geom. I)	2	units
Foreign Language	2	units
U. S. History and Civics	1	unit
Science	1	unit
Elective	5½	units

The two required units in foreign language must be in one language.

COURSE OF STUDY

The course in Home Economics requires four years of regular university work and is planned to meet the needs of women students. All courses combine a thorough training in those branches of arts and sciences essential to intelligent home-making with the broadest possible cultural education. However, many fields of activity other than home-making are open to women trained in Home Economics.

Therefore, the curricula in Home Economics are designed to train young women for home-making and for a remunerative vocation in which all or most of them engage for varying periods of time. Throughout the training period there are certain numbers and kinds of courses which safeguard the preparation for home-making. During the first two years of work any one of four major interests may be chosen for a field of specialization.

Group I—General. For students who desire a liberal college training with emphasis upon subjects which pertain to Home Economics. Persons interested in social betterment who wish to enter definite welfare work may combine home economics and sociology in this curriculum.

Group II—Foods and Nutrition. For students who wish to specialize in dietetics, nutrition, or teaching this phase of work in institutions of higher education, or for laboratory or research workers. Those who intend to become sanitary or foods inspectors are advised to take this course.

Group III—Teachers' Curriculum. For teachers of Home Economics. Combines home economics and liberal arts subjects, chemistry, bacteriology, physiology, fine arts, and economics with education to meet the requirements for a Teacher's Certification in the State of Ohio. Practice teaching extends through one semester in the Akron Schools.

Group IV—Home Economics in Business. Textiles, clothing, and fine arts require a basis of the social sciences and fine arts in combination with specialized work in textiles and clothing. This course leads to different phases of commercial work in textiles and clothing. Practice to the extent of one year is required in approved stores of Akron before a degree is granted. For those who wish to become Textile Research Directors, chemistry should be substituted for social science. Vocations toward which this course leads are saleswomen, buyers, stylists, advertising women, personal shoppers, and newspaper and magazine columnists. A combination of this course with the course in Secretarial Science is possible and frequently desirable.

DEGREES

For completion of the four-year course in Home Economics (128 semester hours are required for graduation) the degree of Bachelor of Science in Home Economics will be conferred.

HOME ECONOMICS
FRESHMAN YEAR FOR ALL GROUPS

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Biology 1	4	Biology 2	4
Home Economics 1	3	Home Economics 2	3
Rhetoric 1	3	Rhetoric 2	3
Art 1	2	Art 2	2
Physical Education	1	Physical Education	1
Public Speaking 1	3	Psychology, General	3
	16		16

SOPHOMORE YEAR
for
GENERAL COURSE AND FOODS AND NUTRITION

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Chemistry 1	4	Chemistry 2	4
Home Economics 11	2	Home Economics 10	3
Human Physiology 9	4	Human Physiology 10	3
English	3	English	3
Electives	3	Electives	3
	16		16

THE UNIVERSITY OF AKRON

JUNIOR YEAR, GENERAL COURSE

First Semester		Cr. Hrs.	Second Semester		Cr. Hrs.
Home Economics 5	.....	3	Home Economics 6	.....	3
Home Economics 17	.....	3	Home Economics 18	.....	3
Home Economics 15	.....	4	Home Economics 16	.....	4
Economics or Sociology	.....	3	Economics or Sociology	.....	3
Electives	.....	3	Electives	.....	3
		<u>16</u>			<u>16</u>

SENIOR YEAR, GENERAL COURSE

First Semester		Cr. Hrs.	Second Semester		Cr. Hrs.
Home Economics 19	.....	3	Home Economics 20	.....	3
History or Economics	.....	3	History or Economics	.....	3
Art 23 or 20	.....	2	Art 22 or 21	.....	2
Electives	.....	3	Child Care 25	.....	3
		<u>16</u>	Electives	.....	<u>5</u>
					<u>16</u>

FOODS AND NUTRITION
JUNIOR YEAR

First Semester		Cr. Hrs.	Second Semester		Cr. Hrs.
Economics or Sociology	.....	3	Economics or Sociology	.....	3
Chemistry 7	.....	4	Chemistry 8	.....	4
Home Economics 15	.....	4	Home Economics 16	.....	4
Home Economics 17	.....	3	Home Economics 18	.....	3
Electives	.....	3	Electives	.....	3
		<u>17</u>			<u>17</u>

SENIOR YEAR

First Semester		Cr. Hrs.	Second Semester		Cr. Hrs.
Home Economics 19	.....	3	Home Economics 20	.....	3
Food Economics 27	.....	3	Advanced Nutrition and Dietetics 29	.....	3
Child Care 25	.....	3	Readings in Foods and Nutrition 30	.....	2
Electives	.....	7	Electives	.....	8
		<u>16</u>			<u>16</u>

HOME ECONOMICS IN BUSINESS
SOPHOMORE YEAR

First Semester		Cr. Hrs.	Second Semester		Cr. Hrs.
History 1	.....	3	History 2	.....	3
Economics 1	.....	3	Economics 2	.....	3
Home Economics 11	.....	2	Home Economics 10	.....	3
English	.....	3	English	.....	3
History of Art	.....	2	History of Art	.....	2
Electives	.....	3	Electives	.....	3
		<u>16</u>			<u>17</u>

JUNIOR YEAR

First Semester		Cr. Hrs.	Second Semester		Cr. Hrs.
Home Economics 5	.....	3	Home Economics 6	.....	3
Home Economics 15	.....	4	Home Economics 16	.....	4
Home Economics 17	.....	3	Home Economics 18	.....	3
Economics 5	.....	3	Economics 6	.....	3
Electives	.....	3	Electives	.....	3
		<u>16</u>			<u>16</u>

SENIOR YEAR

First Semester		Cr. Hrs.	Second Semester		Cr. Hrs.
Sociology	.....	3	Sociology	.....	3
Advanced Textiles 7	.....	3	Advanced Textiles 8	.....	3
Electives	.....	10	Children's Clothing 9	.....	3
			Electives	.....	6
		18			15

Students in this course are required to have a reading knowledge of French.

See Teachers College Bulletin for outline of Teachers Course. Also for other courses open to students not majoring in Home Economics.

COURSES OF INSTRUCTION

(For description of courses in the Liberal Arts College and Teachers College in the Outlines of Courses, see bulletins of the respective colleges.)

1-2c. TEXTILES AND CLOTHING. Both semesters. Three credits each semester.

A study of standard textile fibers. Emphasis on factors which influence style, beauty, uses and wearing quality of fabrics. Simple tests for judging materials. Fundamental processes in garment construction. Use and care of sewing machines and attachments. The use of commercial patterns. Construction work includes simple articles, undergarments and dresses made from cotton and linen material.

3-4. TEXTILES. Both semesters. Two credits each semester. Students not majoring in Home Economics may take Textiles, a course which will be given the first scheduled class hour on Tuesday and Thursday. MISS LATHROP

5-6. CLOTHING. Both semesters. Three credits each semester. Art elements and principles are studied and applied to dress design. Line, color, and texture for different individuals. Garments are made from wool materials using commercial patterns. The work of the second semester includes the preparation of a dress form. Street, afternoon, and evening gowns of silk are draped on the figure. The course aims to develop originality in design and independence and skill in construction. MISS LATHROP

7-8. ADVANCED TEXTILES. Both semesters. Three credits each semester. An intensive study of textile materials with special reference to the nature of raw materials; economic, chemical and physical applications involved in their manufacture and use, methods and significance of physical tests; work of Consumers League and Bureau of Standards; Researches in textiles. Fee \$2.50. Not given in 1930-31. MISS LATHROP

9. CHILDREN'S CLOTHING. A study of design, selection and construction of suitable clothing for children. Not given in 1930-31. MISS LATHROP

10. HISTORIC COSTUME. Second semester. Three credits.

The development of costume is traced from early times to the present. The course deals with a study of costume as an expression of the social, religious, and economic thought of the time, and the part which it plays as an inspiration for modern designing.

MISS LATHROP

11. SURVEY. First semester. Two credits.

This is a general survey of the education of women from early times to the present. It includes a study of the development of the Home Economics movement and the opportunities, other than teaching, which are open to women trained in Home Economics.

MISS LATHROP

15-16de. FOODS AND COOKERY. Both semesters. Four credits each semester.

A study of the composition, value in the diet, selection, and principles of cookery of foods. Two hours lecture and discussion; six hours of laboratory per week. Prerequisite, Chemistry 1 and 2. Fee \$4.50 per semester.

MISS COUNTS

17. HOME MANAGEMENT. First semester. Three credits.

A study of the social aspects of food, shelter and clothing in relation to the home. Efficient management through a study of household activities. The selection and care of equipment. Budget making based on family incomes and expenditures. No prerequisite.

MISS LATHROP

18. THE HOUSE AND ITS FURNISHINGS. Second semester. Three credits.

Various types of architecture are studied. Selection of a site, criticism of house plans, heating, lighting, plumbing. Selection of artistic and economical furnishings for the home. No prerequisite.

MISS LATHROP

19-20. NUTRITION. Both semesters. Three credits each semester.

The first semester includes the study of digestion and metabolism and adult requirements for energy, protein, mineral elements and vitamins. Prerequisite, Foods and Cookery 15-16.

The second semester includes infant and child nutrition. Causes and prevention of malnutrition will be emphasized. Individual cases will be studied in schools or clinic. Prerequisite, Nutrition 19.

MISS COUNTS

23-24. ELEMENTARY HOME MANAGEMENT. Both semesters. Three credits each semester.

A course which leads to insight of principles underlying efficient home management. Part of the first semester deals particularly with problems in relation to foods. Factors taken up will be the selection of foods for health, manufacture and purchase of foods, menu planning, methods of preservation, pure food laws, weights and measures, money value compared with food value, efficiency and cost of fuels and cooking apparatus.

The second unit of the course deals with Child Care. This is presented from the viewpoint of prenatal, infant and pre-school child care as related to mental, moral, and physical development.

The second semester work covers the house, its plan, its care so as to lessen labor and secure more sanitary conditions and give an appreciation of fundamental factors in choice of furnishings, cost of living

and problems of household management. The second part of the course deals with the economic and sociological phases of dress. Textile fabrics, ready-to-wear clothing, methods of shopping, psychology of advertising, and clothing budgets will be considered.

This course is open to all women not majoring in Home Economics.

MISS MAXWELL

25de. CHILD CARE. One semester. Three credits.

The principles relating to development of the child through the prenatal, infancy, and pre-school periods. Physical, mental, social, and moral development is traced through each period. Nutritional needs of various ages are given particular attention. Factors contributing to child welfare in its various phases are discussed.

MISS MAXWELL

27. FOOD ECONOMICS. First semester. Three credits.

A study of the cost of Foods on the market in relation to their quality and food value. Discussions of "Efficient Buying" and Pure Food laws. Two hours of lecture and three hours of laboratory per week. Prerequisite, Foods and Cookery, 15-16. Fee, \$2.40.

29. ADVANCED NUTRITION AND DIETETICS. Second semester. Three credits.

Dietaries for normal individuals in a family will be made. The studies will be detailed for various ages and occupations. Also dietaries will be planned for family groups. The importance of diet in the treatment of certain diseases. Trays will be prepared. One hour of discussion, two or three hours of laboratory per week. Prerequisite, Nutrition 19-20. Fee, \$4.50. Not offered in 1930-31.

MISS COUNTS

30. READINGS IN FOODS AND NUTRITION. Second semester. Two credits.

This course will include assignments in recent literature in the progress in Foods and Nutrition research. Reports will be both oral and written. Advanced Nutrition and Dietetics should parallel this course. Not offered in 1930-31.

MISS COUNTS

COLLEGE OF ENGINEERING AND COMMERCE

FRED E. AYER, C. E., *Dean*

GENERAL INFORMATION

The Directors of the University of Akron established the College of Engineering in 1914, and adopted the five-year co-operative course patterned after the "Cincinnati Plan."

In 1921 the Department of Commerce and Administration became a department of the Engineering College and the name of the latter was changed to the College of Engineering and Commerce.

Akron is a manufacturing center in whose industries there is a constant demand for men with engineering training who will interest themselves in the problems of factory production and management rather than those of engineering design and construction. In order to furnish such training, the College of Engineering and Commerce offers a course in Industrial Engineering which includes both engineering and commerce subjects.

The "Cincinnati Plan" aims to give the student a thorough training in both theory and practice by requiring the practice to be learned under actual commercial conditions in local industrial and business organizations, and the underlying science to be studied in the University under trained educators. To accomplish this the students are grouped in two divisions, one of which is at work and the other in attendance at the University. For example, A who is in division A, attends classes at the University for nine weeks while B, who is paired with A and who is in division B, is at work. Then they change places, and B attends the University for nine weeks while A is at work. This necessitates the giving of all university work twice—once for each division.

Five years of eleven months each are required to complete the course. Freshman engineers spend the first semester at the University full time, after which twenty-two weeks of each year are spent in the classroom.

While a student is at work he is subject to all rules and regulations imposed by his employer upon the other employees. All existing labor laws and conditions, including those pertaining to liability for accident, apply to the student in the same way as to any other employee.

In order to conduct a co-operative course, the college must be located in or near an industrial center, and, while there are over six hundred colleges and universities in the United States, yet comparatively few of them are so located that such a course is practicable. Akron is essentially a manufacturing center, and this type of vocational education was selected as being the latest and the one best adapted to the city's needs; therefore no other courses in Engineering are offered.

OUTSIDE WORK

The Department of Co-ordination and the employer so plan the work that the student gets a carefully graded training, beginning with work requiring no skill or experience and ending with actual professional work.

The outside work is considered such a vital part of the co-operative program that the student is expected to alternate between his classroom work in college and his practical work in industry according to a prescribed schedule. Any student who has deviated from this schedule without written permission from the Co-ordination Department will not be recommended for a degree.

Each student's work assignment is an individual problem. Scholastic records, work reports, conferences, and shop visits are all utilized by co-ordinators in an effort to give each student the type of practical experience which best suits his particular needs.

While at work, co-operative students are kept in constant touch with the college by means of home study courses, work reports, and co-ordinators' shop visits. The home study courses consist of weekly assignments in engineering problems which preserve continuity in the study habit. Weekly work reports are prepared in diary form and contain a daily account of the student's practical experience. These reports provide a constant check upon the student's progress on his outside employment.

The outside work, properly co-ordinated with the University training, furnishes a large part of the technical detail required in professional subjects.

WAGES

The object of requiring outside work is to give the student practical experience and not to enable him to earn money. The student's earnings are not sufficient to pay his expenses. The student is frequently called upon to change practice jobs where the change means a decrease in salary.

Engineering students are paid for their outside work the same as other employees. Beginners are paid a little more than apprentices and are increased according to a rate agreed upon by the employer and the Department of Co-ordination. Students are paid only for the time actually employed, and receive their wages direct, as does any other employee.

DEGREES

The degrees of Civil Engineer, Mechanical Engineer, Electrical Engineer, Industrial Engineer, Bachelor of Science in Business Administration, and Bachelor of Science in Secretarial Science, will be granted to those students who satisfactorily complete the required work of the respective courses of study. In addition to his diploma, each co-operative student will receive a certificate showing in detail his practical experience.

MILITARY TRAINING

Military training under the direct supervision of the United States Government is required of all male students physically fit. Men entering the College of Engineering and Commerce are exempt only if they have

been two years in attendance at another institution of collegiate grade. It takes two years to complete the basic course on the co-operative or part-time plan. All freshmen are urged to attend the basic camp at the end of the freshman year and satisfactory arrangements have been made in the summer school for such attendance.

Students pursuing advanced R. O. T. C. are allowed to substitute military training (not over 12 co-operative hours of credit) for courses in the curriculum. These courses shall be selected by a committee composed of the Dean, head of the department in which the student is classified, and the professor of co-ordination.

ADMISSION

The following supplements the statement of general entrance requirements made on introductory pages.

Candidates for admission must be at least sixteen years of age, and must present fifteen units of secondary school work. Students will be admitted with entrance conditions amounting to not more than one unit. Such conditions must be removed during the freshman year.

ENTRANCE REQUIREMENTS

The following supplements the statement of general entrance requirements made on introductory pages.

The requirement for unconditional entrance is 15 units.

The specific requirements for entrance to this college are as follows:

	Engineering	Commerce and Secretarial
English	3 units	3 units
Mathematics (Algebra 1½, Plane Geometry 1)	2½ units	2½ units
Solid Geometry	½ unit	
American History and Civics.....	1 unit	1 unit
Science (must include laboratory work).....	1 unit	1 unit
Foreign Language		2 units
Electives (not more than 3 units in vocational subjects)	7 units	5½ units

ENTRANCE REQUIREMENTS FOR TWO-YEAR COURSE IN SECRETARIAL SCIENCE

The specific requirements for entrance to the two-year course in Secretarial Science are as follows:

English	3 units
Algebra	1 unit
Geometry	1 unit
or Foreign Language	2 units
U. S. History and Civics.....	1 unit
Science (Physics, Chemistry, or Biology).....	1 unit
Electives	7 or 8 units

Minimum total credits required..... 15 units

Of the elective units accepted, six units may be in vocational subjects distributed as follows:

- If 6 units are offered, at least 4 should be commercial.
- If 5 units are offered, at least 3 should be commercial.
- If 4 units are offered, at least 2 should be commercial.

Students enrolled in the two-year Secretarial Course may transfer to other departments of the University with the permission of the University Examiner and the Deans of the respective colleges concerned, but only after all entrance requirements have been satisfied for the course to which transfer is desired.

ESTIMATED EXPENSE OF FRESHMAN YEAR
FIRST SEMESTER

	Resident	Non-Resident
Tuition	Free	*\$ 90.00
Fees	\$54.00	54.00
Books and Drawing Instruments.....	40.00	40.00
	<hr/>	<hr/>
Total	\$94.00	\$184.00

SECOND SEMESTER

	Resident	Non-Resident
Tuition	Free	*\$ 90.00
Fees	\$48.50	48.50
Books	8.00	8.00
	<hr/>	<hr/>
Total	\$56.50	\$146.50

SUMMER TERM

	Resident	Non-Resident
Tuition	Free	\$ 25.00
Fees	\$ 2.00	2.00
Books	5.00	5.00
	<hr/>	<hr/>
Total	\$ 7.00	\$ 32.00

Board and room can be obtained for approximately \$10 per week.

DEPARTMENTS OF INSTRUCTION

Letters prefixed to course numbers indicate that these courses are given in the respective colleges or departments as follows:

- A.—College of Liberal Arts.
- C.—Commerce.
- C. E.—Civil Engineering.
- E. E.—Electrical Engineering.
- M. E.—Mechanical Engineering.
- I. E.—Industrial Engineering.
- S.—Secretarial Science.

The general arrangement of courses on the following pages is according to this order:

ENGINEERING: Civil Engineering, Electrical Engineering, Mechanical Engineering, Industrial Engineering, General Courses for Engineering students.

COMMERCE: Business Administration, General Courses for Commerce students.

SECRETARIAL SCIENCE.

MILITARY AND PHYSICAL TRAINING.

MUSIC.

*The tuition is \$60.00 for co-operative students when attending the University half time.

**ENGINEERS'
WORK CALENDAR**

1930	S	M	T	W	T	F	S	1931	S	M	T	W	T	F	S
APR.	...	...	...	...	...	3	4	5	12	13	14	15	16	17	18
	6	7	8	9	10	11	12		19	20	21	22	23	24	25
	13	14	15	16	17	18	19		26	27	28	29	30	31	1
	20	21	22	23	24	25	26	NOV.	2	3	4	5	6	7	8
	27	28	29	30	1	2	3		9	10	11	12	13	14	15
MAY	4	5	6	7	8	9	10		16	17	18	19	20	21	22
	11	12	13	14	15	16	17		23	24	25	26	27	28	29
	18	19	20	21	22	23	24	DEC.	30	1	2	3	4	5	6
	25	26	27	28	29	30	31		7	8	9	10	11	12	13
JUNE	1	2	3	4	5	6	7		14	15	16	17	18	19	20
	8	9	10	11	12	13	14		21	22	23	24	25	26	27
	15	16	17	18	19	20	21	JAN.	28	29	30	31	1	2	3
	22	23	24	25	26	27	28		4	5	6	7	8	9	10
	29	30	1	2	3	4	5		11	12	13	14	15	16	17
JULY	6	7	8	9	10	11	12		18	19	20	21	22	23	24
	13	14	15	16	17	18	19		25	26	27	28	29	30	31
	20	21	22	23	24	25	26	FEB.	1	2	3	4	5	6	7
	27	28	29	30	31	1	2		8	9	10	11	12	13	14
AUG.	3	4	5	6	7	8	9		15	16	17	18	19	20	21
	10	11	12	13	14	15	16		22	23	24	25	26	27	28
	17	18	19	20	21	22	23	MAR.	1	2	3	4	5	6	7
	24	25	26	27	28	29	30		8	9	10	11	12	13	14
SEPT.	31	1	2	3	4	5	6		15	16	17	18	19	20	21
	7	8	9	10	11	12	13		22	23	24	25	26	27	28
	14	15	16	17	18	19	20	APR.	29	30	31	1	2	3	4
	21	22	23	24	25	26	27		5	6	7	8	9	10	11
OCT.	28	29	30	1	2	3	4		12	13	14	15	16	17	18
	5	6	7	8	9	10	11		19	20	21	...	...	...	...

Dates in light face type indicate work periods for Division B.

Dates in bold face type indicate work periods for Division A.

**CALENDAR
FOR
CO-OPERATIVE ENGINEERS
1930-31**

Division A

Apr. 7 to July 19.....In Industry
 July 21 to Aug. 16.....School
 Aug. 18 to Sept. 13.....Vacation
 Sept. 15 to Nov. 15.....School
 Nov. 17 to Jan. 31.....In Industry
 Feb. 2 to Mar. 28.....School
 Mar. 30 to Apr. 4.....Vacation
 Apr. 6 to Apr. 11.....School

Division B

Apr. 7 to Apr. 12.....School
 Apr. 14 to Apr. 19.....Vacation
 Apr. 21 to June 14.....School
 June 16 to June 21.....Vacation
 June 23 to July 19.....School
 July 21 to Nov. 15.....In Industry
 Nov. 17 to Dec. 20.....School
 Dec. 22 to Jan. 3.....Vacation
 Jan. 5 to Jan. 31.....School
 Feb. 2 to Apr. 11.....In Industry

ENGINEERING

OUTLINE OF COURSES FOR FRESHMEN

The freshman courses listed below are the same for all departments of engineering. All freshmen attend the University full time (18 weeks) during the first semester, and half time (9 weeks) during the second semester. The other 9 weeks of the second semester are spent in engineering practice.

Students entering in February may overtake September freshmen by remaining in classes full time for two semesters.

Students will be granted credit for only one summer military camp. This camp should be attended during the summer following the freshman year.

FRESHMAN YEAR

FIRST SEMESTER

	First 9 weeks Hrs. per week	Second 9 weeks Hrs. per week
Military Training	2	2
Physical Training	1	1
Orientation Co-ord. 1-2	1	1
Mathematics 51	5	5
Review of Eng. Composition (no college credit)	4	
English Composition 81		4
Physics 51	4	4
Elementary Engineering Drawing 1-3.....	2	4
Surveying C. E. 1.....	3	

SECOND SEMESTER

	First or Second 9 weeks Hrs. per week
Military Training	2
Physical Training	1
Mathematics 52	5
Physics 52	5
Projection Drawing M. E. 4.....	4
English Composition 82	4
Co-ordination 22	2

SUMMER TERM

	Hrs. per week
Elective	6
Surveying C. E. 4.....	14
Inspection Trips, Co-ordination 71.....	2

CIVIL ENGINEERING

The 22 hours for each summer term are equal to 10 semester credit hours (Co-operative basis).

FRESHMAN YEAR

(See General Outline of Engineering Courses for Freshmen on preceding pages.)

SOPHOMORE YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Military Training	2	Military Training	2
Physical Training	1	Physical Training	1
Mathematics 53	4	Mathematics 54	4
Physics 53	6	Physics 54	6
Descriptive Geometry M. E. 8.....	6	Physics 55	5
Public Speaking 91	2	Public Speaking 92	2
Engineering Problems, Co-ord. 31.....	2	Engineering Problems, Co-ord. 32.....	2

SUMMER TERM

	Hrs. per week
Structural Drawing C. E. 10	14
Mathematics 55	6
Inspection Trips, Co-ordination 72	2

PRE-JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Chemistry 32	6	Chemistry 33	6
Mathematics 56	4	Mathematics 57	4
Power Plants M. E. 21.....	6	Strength of Materials C. E. 16.....	6
Roofs and Bridges C. E. 12	6	Materials Laboratory C. E. 18.....	3
Engineering Problems, Co-ord. 42.....	2	Roofs and Bridges C. E. 14.....	2
		Engineering Problems Co-ord. 42.....	2

SUMMER TERM

	Hrs. per week
Railroads C. E. 20	10
Reinforced Concrete C. E. 22	8
Concrete Laboratory C. E. 24	4
Inspection Trips, Co-ordination 73	2

JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Highways and Airports C. E. 30.....	6	Hydraulics M. E. 75	5
D. C. Theory E. E. 5	6	A. C. Theory E. E. 6	6
D. C. Laboratory E. E. 7.....	4	A. C. Laboratory E. E. 8.....	4
Design of Concrete Structures C. E. 26	7	Design of Steel Structures C. E. 28.....	7
Engineering Problems, Co-ord. 51.....	2	Engineering Problems, Co-ord. 52.....	2

SUMMER TERM

	Hrs. per week
Physics 56	10
Engineering Geology C. E. 32	7
Inspection Trips, Co-ordination 74.....	2
Elective	3

SENIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Accounting C. 28.....	6	Industrial Management I. E. 2.....	6
Sewerage C. E. 34	6	Water Supply C. E. 38	6
Economics A. 23	5	Economics A. 24	5
Engineering Design—Airplane Structures C. E. 36	2	Engineering Design C. E. 40	2
English Literature 85	2	English Literature 86	2
Engineering Problems, Co-ord. 61.....	2	Engineering Problems, Co-ord. 62.....	2

The above courses comprise the subjects required for the Degree of Civil Engineer. In no case, however, will a degree be awarded until the student has passed, with necessary quality points, a total of 270 credit hours.

CIVIL ENGINEERING

PROFESSOR DURST, ASSISTANT PROFESSOR BULGER

1. SURVEYING. First semester. Three credits.

Instruction is given in the correct use of the tape, the level, and the transit. A study is made of compass surveying, computing areas and note keeping. Some time is also devoted to the making of maps and profiles.

PROFESSOR DURST.

3. ELEMENTS OF STRUCTURAL DESIGN. First semester. Six credits.

Stresses in simple roof and bridge trusses will be analyzed. The theory of reinforced concrete will be studied, and illustrated by problems involving the design of slabs, beams, and columns.

ASSISTANT PROFESSOR BULGER

4. SURVEYING. Summer term. Fourteen hours per week.

This course consists of the surveying and computation of areas, tests and adjustments of instruments, stadia and plane table work and contour mapping. At least one Polaris observation is made. Most of the work is done away from the campus. Prerequisite, 1.

PROFESSOR DURST

10. STRUCTURAL DRAWING. Summer term. Fourteen hours per week.

In this course the students are taught some of the conventional methods of representing structural shapes. Exercises are given on the detailing of riveted joints, beams, girders, columns and roof trusses. Prerequisites, Drawing M. E. 3-4, and Descriptive Geometry.

PROFESSOR GRIFFIN

12-14. ROOFS AND BRIDGES. First and second semesters. Six credits first semester; two credits second semester.

The calculation of stresses in several types of roof trusses for dead, snow and wind loads are made analytically and checked by graphics. Stresses are calculated for several bridge trusses under dead and live loads. Text: Ellis.

ASSISTANT PROFESSOR BULGER

16. STRENGTH OF MATERIALS. Second semester. Six credits.

Classroom work is given in tensile, compressive, and shearing stresses, riveted joints, torsion, bending moments, stresses and deflections of beams. A study is made of end conditions and formulas for columns. Text: Poorman. Prerequisites, Physics and Calculus.

ASSISTANT PROFESSOR BULGER

18. MATERIALS LABORATORY. Second semester. Three credits.

Steel is tested in compression, tension and torsion. Compression tests of brick, concrete, wood, and cast iron are made. Beams of steel and wood are tested and the deflections measured. A 200,000-pound Olsen Universal testing machine, a 100,000-pound Riehle vertical screw testing machine and a 60,000-inch-pound Riehle torsion machine with needed extensometers and strain gauges are used in making the tests. Prerequisite, 16.

ASSISTANT PROFESSOR BULGER

20. RAILROADS. Summer term. Ten hours per week.

An intensive course in railroad construction and surveying is given. This includes field and office work in simple, compound, and spiral curves. Text: Searles and Ives. Prerequisite, 4.

PROFESSOR DURST

22. REINFORCED CONCRETE. Summer term. Eight hours per week. Instruction is given in the properties of plain and reinforced concrete, the design of mixtures, and the theory of stresses in reinforced concrete. Practice is given in the design of beams and columns. Text: Urquhart and O'Rourke. Prerequisite, 16. ASSISTANT PROFESSOR BULGER

24. CONCRETE LABORATORY. Summer term. Four hours per week. The standard laboratory tests on cement, sand, and concrete are conducted in accordance with the A. S. T. M. standards. Experimental investigations are made. A trip is made to a cement plant where the actual manufacture of cement is studied. PROFESSOR DURST

26. DESIGN OF CONCRETE STRUCTURES. First semester. Seven credits. Practice is given in designing various concrete structures such as buildings, beam and slab bridges, and retaining walls. Text: Urquhart and O'Rourke. Prerequisite, 16 and 22. ASSISTANT PROFESSOR BULGER

28. DESIGN OF STEEL STRUCTURES. Second semester. Seven credits. Practice is given in designing and computing costs of steel structures such as mill and office buildings, warehouses, and bridges. Prerequisite, 16. Text: Ketchum's Structural Engineers Hand Book. ASSISTANT PROFESSOR BULGER

30. HIGHWAYS AND AIRPORTS. Second semester. Five credits. A study is made of the construction, cost, and advantages of the various types of hard surfaced highways. City paving and street designing are also considered. Traffic is studied by the use of traffic census. Bituminous material is tested. Airport runways and airport development are studied. Text: Agg's Roads and Pavements, and Government Bulletins. PROFESSOR DURST

32. ENGINEERING GEOLOGY. Summer term. Six hours per week. This course consists of a survey of the essential facts of dynamic, structural, and economic geology. The relation of geology to the engineer and his work is kept constantly in mind. The class room work is supplemented by an excellent collection of Ward's minerals, rocks, coals, etc., and by several collections which have been donated by interested citizens. Text: Ries and Watson. PROFESSOR DURST

34. SEWERAGE. First semester. Six credits. The first part of this course takes up sewer design. After some class room study and discussion, each student is required to design a complete sewer system for some district in Akron, or for an adjoining town. Sewage disposal is taken up in the second part of the course, including a comparative study of the various types of sewage treatment plants, and the visiting of several plants. Text: Metcalf and Eddy. Prerequisite, Hydraulics, M. E. 75. PROFESSOR DURST

36. ENGINEERING DESIGN (AIRPLANE STRUCTURES). First semester. Two credits. The purpose of this course is to show the relation between the design of airplane structures and the design of buildings and bridges. ASSISTANT PROFESSOR BULGER

38. WATER SUPPLY. Second semester. Six credits.
After a review of formulæ, methods, and practice, each student is required to design a complete water system for a portion of Akron or a nearby town. An inspection trip to the Akron Pumping Station and Treatment Plant at Kent is arranged once a year. Text: Babbitt and Dolan. Prerequisite, Hydraulics, M. E. 75. PROFESSOR DURST

40. ENGINEERING DESIGN. Second semester. Two credits.
Special problems in design are selected. This course gives the student an opportunity to do extra work along the particular line in which he wishes to specialize. ASSISTANT PROFESSOR BULGER

ELECTRICAL ENGINEERING

The 22 hours for the summer term are equal to 10 semester credit hours (Co-operative basis).

FRESHMAN YEAR

(See General Outline of Engineering Courses for Freshmen on preceding pages.)

SOPHOMORE YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Military Training	2	Military Training	2
Physical Training	1	Physical Training	1
Mathematics 53	4	Mathematics 54	4
Physics 53	6	Physics 54	6
Descriptive Geometry M. E. 8	6	Physics 55	5
Public Speaking 91	2	Public Speaking 92	2
Engineering Problems, Co-ord. 31	2	Engineering Problems, Co-ord. 32	2

SUMMER TERM

	Hrs. per week
Mathematics 55	6
Machine Drawing M. E. 14	10
Mechanical Engineering Laboratory M. E. 24	4
Inspection Trips, Co-ordination 72	2

PRE-JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Mathematics 56	4	Mathematics 57	4
Chemistry 32	6	Chemistry 33	6
English Literature 85	2	English Literature 86	2
D. C. Theory E. E. 5	6	A. C. Theory E. E. 6	6
D. C. Laboratory E. E. 7	4	A. C. Laboratory E. E. 8	4
Engineering Problems, Co-ord. 41	2	Engineering Problems, Co-ord. 42	2

SUMMER TERM

	Hrs. per week
Physics 56	10
Advanced Electrical Theory E. E. 9	4
Advanced Electrical Laboratory E. E. 10	6
Inspection Trips, Co-ordination 73	2

JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Economics A. 23	5	Economics A. 24	5
Adv. Electrical Theory E. E. 11	5	Adv. Electrical Theory E. E. 12	5
Adv. Electrical Lab. E. E. 13	6	Adv. Electrical Lab. E. E. 14	2
Elementary Power Plants M. E. 21	5	Strength of Materials C. E. 16	6
Engineering Problems, Co-ord. 53	2	Materials Laboratory C. E. 18	3
		Engineering Problems, Co-ord. 62	2

SUMMER TERM

	Hrs. per week
Advanced Electrical Theory E. E. 20	12
Advanced Electrical Laboratory E. E. 22	8
Inspection Trips, Co-ordination 74	2

SENIOR YEAR

First Semester		Second Semester		Cr. Hrs.
	Cr. Hrs.		Cr. Hrs.	
Thermodynamics M. E. 82	5	Hydraulics M. E. 75	5	
Adv. Elec. Theory E. E. 28	5	Elec. Power Transmission E. E. 41	3	
Spec. Elec. Probs. E. E. 61	6	Radio Communication E. E. 45	4	
Accounting C. 28	6	Special Electrical Probs. E. E. 62	4	
Engineering Probs., Co-ord. 67	2	Industrial Engineering I. E. 2	6	
		Engineering Problems, Co-ord. 68	2	

The above courses comprise the subjects required for the Degree of Electrical Engineer. In no case, however, will a degree be awarded until the student has passed, with necessary quality points, a total of 270 credit hours.

ELECTRICAL ENGINEERING

PROFESSOR WALTHER, MR. SMITH

5. DIRECT CURRENT THEORY. First semester. Six credits. This course covers elementary electrical engineering and includes the study of the principles of electricity and magnetism, electric and magnetic circuits, direct current generators and motors, and storage batteries.

MR. SMITH

6. ALTERNATING CURRENT THEORY. Second semester. Six credits. This course covers elementary electrical engineering and includes the study of fundamental ideas regarding alternating electromotive force and current, resistance, inductance, and capacity in alternating current circuits, and the theory of alternating current generators, motors, instruments, and transformers.

MR. SMITH

7. DIRECT CURRENT LABORATORY. First semester. Four credits. This course includes elementary exercises in electricity and magnetism, various practical tests on direct current machines, and supplements the theoretical work given in 5.

MR. SMITH

8. ALTERNATING CURRENT LABORATORY. Second semester. Four credits. This course includes elementary experimental study of alternating current circuits, and various practical tests on alternating current machines, and supplements the theoretical work given in 6.

MR. SMITH

9-11-12-20-28. ADVANCED ELECTRICAL THEORY. First and second semesters and the preceding and intermediate summer terms. Five credits each semester, and four and twelve credits for summer terms.

This course is a continuation of 6. It includes more thorough study of the theory and construction of electrical machines and appliances and a large number of problems.

PROFESSOR WALTHER

10-13-14-22. ADVANCED ELECTRICAL LABORATORY. First and second semesters and preceding and following summer terms. Six credits first semester, two credits second semester, six and eight credits for summer terms.

This course is a continuation of 8 and includes more advanced experimental study of direct and alternating circuits and equipment, and supplements the theoretical work given in 9-11-12-20.

PROFESSOR WALTHER AND MR. SMITH

41. ELECTRIC POWER TRANSMISSION. Second semester. Three credits. This course covers the study of transmission and distribution of electrical power. The economic, mechanical, and electrical principles involved are considered for both underground and overhead systems.

PROFESSOR WALTHER

45. RADIO COMMUNICATION. Second semester. Four credits.

This course covers the theory of medium and high frequency circuits, vacuum tubes and other radio equipment. Two recitations and four hours of laboratory work per week.

MR. SMITH

61-62. SPECIAL ELECTRICAL PROBLEMS. First and second semesters. Six credits first semester, four credits second semester.

This course is designed to teach the seniors in electrical engineering to work independently. Special exercises are assigned individuals or to groups, such as advanced laboratory experiments or design and construction of special equipment.

PROFESSOR WALTHER

MECHANICAL ENGINEERING

The 22 hours for the summer term are equal to 10 semester credit hours (Co-operative basis).

FRESHMAN YEAR

(See General Outline of Engineering Courses for Freshmen on preceding pages.)

SOPHOMORE YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Military Training	2	Military Training	2
Physical Training	1	Physical Training	1
Mathematics 53	4	Mathematics 54	4
Physics 53	6	Physics 54	6
Descriptive Geometry M. E. 8	6	Physics 55	5
Public Speaking 91	2	Public Speaking 92	2
Engineering Problems, Co-ord. 31	2	Engineering Problems, Co-ord. 32	2

SUMMER TERM

	Hrs. per week
Mathematics 55	6
Machine Drawing M. E. 14	10
Mechanical Engineering Laboratory M. E. 24	4
Inspection Trips, Co-ordination 72	2

PRE-JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Mathematics 56	4	Mathematics 57	4
Chemistry 32	6	Chemistry 33	6
Elementary Power Plants M. E. 21	5	Strength of Materials C. E. 16	6
Mechanism M. E. 31	5	Materials Laboratory C. E. 18	3
English Literature 85	2	English Literature 86	2
Engineering Problems, Co-ord. 41	2	Engineering Problems, Co-ord. 42	2

SUMMER TERM

	Hrs. per week
Physics 56	10
Steam Power Plants M. E. 44	5
Machine Design M. E. 54	5
Inspection Trips, Co-ordination 73	2

JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Steam Power Plants M. E. 45	5	Steam Power Plants M. E. 46	3
Mechanism Drawing M. E. 32	2	Machine Design M. E. 55	4
D. C. Electricity E. E. 6	6	A. C. Electricity E. E. 6	6
D. C. Laboratory E. E. 7	4	A. C. Laboratory E. E. 8	4
Economics A. 23	5	Economics A. 24	5
Engineering Problems, Co-ord. 55	2	Engineering Problems, Co-ord. 62	2

SUMMER TERM

	Hrs. per week
Machine Design M. E. 56	12
Mechanical Engineering Laboratory M. E. 61	8
Inspection Trips, Co-ordination 74	2

SENIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Heating and Ventilating M. E. 71.....	4	Hydraulics M. E. 75	5
Thermodynamics M. E. 82	5	Special Problems M. E. 88	5
Mechanical Engineering Laboratory		Gas and Oil Engines, M. E. 38	5
M. E. 62	2	Industrial Engineering, I. E. 2	6
Accounting C. 28	6	Engineering Problems, Co-ord. 65	2
Elective	3 to 5		
Engineering Problems, Co-ord. 56.....	2		

The above courses comprise the subjects required for the Degree of Mechanical Engineer. In no case, however, will a degree be awarded until the student has passed, with necessary quality points, a total of 270 credit hours.

MECHANICAL ENGINEERING

PROFESSOR GRIFFIN, ASSISTANT PROFESSOR UPP, MR. WILSON

1 and 3. ELEMENTARY ENGINEERING DRAWING. First semester. Two credits first nine weeks, four credits second nine weeks.

The object of this course is to train the student in freehand sketching, lettering, and mechanical drawing. Special attention is given to the use and care of drawing instruments. PROFESSOR GRIFFIN, MR. WILSON

4. PROJECTION DRAWING. Second semester. Four credits.

This course teaches the student how to represent an object by showing the proper views. Assigned exercises include problems in orthographic projection, isometric, and oblique drawing, and the conventional methods of drawing bolts, nuts, and screw threads. PROFESSOR GRIFFIN, MR. WILSON

8. DESCRIPTIVE GEOMETRY. First semester. Six credits.

This subject treats of the fundamental theory and the solution of problems concerning the graphical representation of points, lines, planes and surfaces. Prerequisites, 1, 3 and 4. MR. WILSON

9. DESCRIPTIVE GEOMETRY. Second semester. Two credits.

This course, a continuation of 8, consists of the graphical solution of practical problems pertaining to surfaces and solids. MR. WILSON

14. MACHINE DRAWING. Summer term. Ten hours per week.

Modern drafting-room methods of making machine drawings. Students make freehand sketches of machine parts, detail and assembly drawings, tracings, and blue prints. PROFESSOR GRIFFIN, MR. WILSON

21. ELEMENTARY POWER PLANTS. First semester. Five credits.

A brief survey is made of the fundamental theory and design of some of the important power producing units such as steam boilers, steam, gas and oil engines, and their accessories. PROFESSOR GRIFFIN

24. MECHANICAL ENGINEERING LABORATORY. Summer term. Four credits.

This course is devoted to the calibration and the use of instruments and apparatus such as pressure and vacuum gauges, thermometers, steam and gas engine indicators and oil testing apparatus. ASSISTANT PROFESSOR UPP

31. MECHANISM. First semester. Five credits.

Various means of transmitting and modifying machine motions and the determination of the relative displacement, velocity, and acceleration of different machine parts. ASSISTANT PROFESSOR UPP

32. MECHANISM DRAWING. First semester. Two credits.

In this course students make layout drawings of various methods of transmitting and modifying motion by means of links, cams, gears, and other common machine parts. Prerequisite, Mechanism M. E. 31.

ASSISTANT PROFESSOR UPP

38. GAS AND OIL ENGINES. Second semester. Five credits.

The fundamentals involved in the theory, design, and operation of internal combustion engines are studied. Special attention is given to automotive, airplane, and oil engines.

ASSISTANT PROFESSOR UPP

44-45-46. STEAM POWER PLANTS. Summer term and first and second semesters. Five credits each for summer term and first semester; three credits for second semester.

Combustion, steam boilers, the properties of steam, and the methods of burning coal and oil are studied during the summer term and the first semester. In the second semester the course consists of a study of steam engines, steam turbines, and their accessories with some laboratory exercises.

ASSISTANT PROFESSOR UPP

54-55. MACHINE DESIGN. Summer term and second semester. Five credits for summer term and four credits for second semester.

The fundamental principles involved in the design and operation of machinery are studied, with problems on the design of riveted joints, keys and shafting, belting, chains and sprockets, gears, bearings, couplings, and other machine parts.

MR. WILSON

56. MACHINE DESIGN. Summer term. Twelve hours per week.

In this course the student applies the theory as taught in 54-55 and makes a complete design and drawing of an assigned machine.

PROFESSOR GRIFFIN, MR. WILSON

61-62. MECHANICAL ENGINEERING LABORATORY. Summer term and first semester. Eight credits for summer term and two credits for first semester.

The work in the summer term consists of tests on internal combustion engines and the use of the electric dynamometer. The experimental work in the first semester is devoted to hydraulics, steam engine and steam turbine tests, and the operation of steam power plant accessories.

ASSISTANT PROFESSOR UPP

71. HEATING AND VENTILATING. First semester. Four credits.

The purpose of this course is to present the fundamental principles which apply in various systems of heating and ventilation and the methods of their construction.

PROFESSOR GRIFFIN

75. HYDRAULICS. Second semester. Five credits.

Some of the topics studied are water pressure, stability of simple structures subjected to water pressure, the flow of water and its measurement and the fundamental principles of water pumps and motors.

PROFESSOR GRIFFIN

82. THERMODYNAMICS. First semester. Five credits.

The transformation of heat into mechanical energy is studied with special reference to steam boilers, engines and turbines, internal combustion engines and refrigerating systems.

ASSISTANT PROFESSOR UPP

88. SPECIAL MECHANICAL ENGINEERING PROBLEMS. Second semester. Five credits.

The student works out a design or laboratory problem under the supervision of the instructor in charge. The student is required to turn over to the department all data, drawings, etc., in the form of an engineering report.

PROFESSOR GRIFFIN, ASSISTANT PROFESSOR UPP

INDUSTRIAL ENGINEERING

The 22 hours for the summer term are equal to 10 semester credit hours (Co-operative basis).

SOPHOMORE YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Military Training	2	Military Training	2
Physical Training	1	Physical Training	1
Mathematics 53	4	Mathematics 54	4
Physics 53	6	Physics 54	6
Descriptive Geometry M. E. 8	6	Public Speaking 92	2
Public Speaking 91	2	Production Methods I. E. 1	6
Engineering Problems, Co-ord. 31	2	Engineering Problems, Co-ord. 32	2

SUMMER TERM Hrs. per week

Mathematic 55	6
Machine Drawing M. E. 14	10
Business Law 40	2
Inspection Trips, Co-ordination 72	2

PRE-JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Chemistry 32	6	Chemistry 33	6
Mathematics 56	4	Physics 55	5
Industrial Engineering I. E. 2	6	Mathematics 57	4
Mechanism M. E. 31	6	Strength of Materials C. E. 16	6
Mechanism Drawing M. E. 32	2	Engineering Problems, Co-ord. 42	2
Engineering Problems, Co-ord. 41	2		

SUMMER TERM Hrs. per week

Physics 56	10
Steam Power Plants, M. E. 44	5
Machine Design M. E. 54	5
Inspection Trips, Co-ord. 73	2

JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
D. C. Electricity E. E. 5	6	A. C. Electricity E. E. 6	6
D. C. Laboratory E. E. 7	4	A. C. Laboratory E. E. 8	4
Materials Laboratory C. E. 18	3	Personnel Relations I. E. 4	3
Economics A. 23	5	Production Methods I. E. 3	3
Human Biology A. 13	3	Economics A. 24	5
Engineering Problems, Co-ord. 57	2	Economic Geography C. 20	3
		Engineering Problems, Co-ord. 58	2

SUMMER TERM Hrs. per week

Machine Design M. E. 56	12
Business Law C. 41	2
Business Finance C. 73	3
Inspection Trips, Co-ord. 74	2

SENIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Industrial Management Probs. I. E. 5	3	Statistics C. 57	4
Elements of Structural Design C. E. 3	6	Accounting C. 28	3
Heating and Ventilating M. E. 71	4	Problems in Finance C. 75	3
Business Correspondence S. 5	3	Sales Administration C. 86	3
Marketing C. 80	3	Psychology A. 1	3
Sociology A. 1	3	Machine Design M. E. 55	4
Human Engineering I. E. 6	3	Bacteriology A. 80	3
		Seminar I. E. 7	2

The above courses comprise the subjects required for the Degree of Industrial Engineer. In no case, however, will a degree be awarded until the student has passed, with necessary quality points, a total of 270 credit hours.

INDUSTRIAL ENGINEERING

PROFESSOR ADENDORFF, MR. HARTLEY

1. **PRODUCTION METHODS.** Second semester. Six credits.
Modern production methods of the woodshop, foundry, and machine shop are developed. Text book used. PROFESSOR ADENDORFF
 2. **INDUSTRIAL MANAGEMENT.** First semester. Six credits.
A brief history of industry leading up to the period of mass production and the development of the industrial tendencies known as aggregation, standardization, specialization and the division of labor. The scientific management movement. Fundamentals of industrial organization and systematization. Wage systems and special types of bonus payments, management control through cost finding and costs, labor turnover, office management, administrative principles, sales engineering. Text book used. PROFESSOR ADENDORFF
 3. **PRODUCTION METHODS.** Second semester. Three credits.
Modern production methods more especially relating to the rubber industry. Time, motion study and production problems. PROFESSOR ADENDORFF
 4. **PERSONNEL RELATIONS.** Second semester. Three credits.
This course is designed to consider the problems of the personnel department in industry. Text book used. PROFESSOR ADENDORFF
 5. **INDUSTRIAL MANAGEMENT PROBLEMS.** First semester. Three credits.
Industrial problems relative to plant, buildings, equipment, materials, organization, labor, wages, production control, quality control and coordination. PROFESSOR ADENDORFF
 6. **HUMAN ENGINEERING.** First semester. Three credits.
A course designed to give the student an opportunity to know and understand his own values, and give a scientific basis for selecting men and women for the different vocations. Lectures and recitations are given on executive ability, the source of personal power, effective effort, increase in power, stimulating and controlling men, women, and children, personality, art in management, discipline, the executive's adaptability, coloration. Text book used. PROFESSOR ADENDORFF
 7. **INDUSTRIAL ENGINEERING SEMINAR.** Second semester. Two credits.
This course takes up a study of industrial engineering publications and the writing and discussion of papers on allied subjects. PROFESSOR ADENDORFF
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GENERAL COURSES FOR ENGINEERING STUDENTS

The letter "C" prefixed to a course number indicates that the course is given in the Commerce Department; M. E., C. E., E. E., and I. E., in Mechanical, Civil, Electrical and Industrial Engineering Departments; A in the Liberal Arts college; e, in the Evening Session.

AERONAUTICS

1-2. AERODYNAMICS. First and second semesters. Four credits each semester.

Lectures and problems are given on fluid motion, resistance of shapes, airfoil characteristics, parasite resistance, propellers, the complete airplane, stability, performance, dynamic loads. For Pre-Juniors. Followed by Co-ordination 81-82. MR. QUEEN

3-4. AIRPLANE STRESS ANALYSIS. First and second semesters. Three credits each semester.

Lectures and problems are given. Brief review of mechanics, tension, compression, shear, torsion and bending, analysis of wing truss, design of wing beams, analyses of wing, chassis, fuselage, and control surfaces, materials of construction. For Juniors. Followed by Co-ordination 83-84. MR. QUEEN

BIOLOGY

80. BACTERIOLOGY. Second semester. Three credits.

A study of micro-organisms and their specific relations to the engineer and his problems. Water purification and sewage reduction receive special attention. Sufficient laboratory work is given to enable the student to solve problems of a practical nature. ASSISTANT PROFESSOR FOX

CHEMISTRY

32. ENGINEERING CHEMISTRY. First semester. Six credits.

The following subjects are studied: substances and properties, chemical change, combining proportions, atomic theory, valence, water, molecular weights, energy and chemical change, chemical equilibrium, acids, bases and salts and ionization. The laboratory work consists of experiments in the foregoing subjects. ASSISTANT PROFESSOR SCHAEFER

33. ENGINEERING CHEMISTRY. Second semester. Six credits.

The second semester is a continuation of chemistry 32. Practically the entire semester is devoted to a study of solid, liquid and gaseous fuels, their use, efficiencies and the thermo chemistry of combustion. Especial attention is given to the combustion of coal. The laboratory work consists of the analysis of industrial gases and the determination of the calorific value of fuels. ASSISTANT PROFESSOR SCHAEFER

34. METALLURGY OF IRON AND STEEL. Second semester. Six credits.

Recitations and lectures on the manufacture, properties and the uses of iron and steel. Laboratory work in heat-treating of steel and microscopic examination of metals and alloys. The steel and non-ferrous alloy requirements of the aircraft industry are studied.

ASSISTANT PROFESSOR SCHAEFER

CO-ORDINATION

Courses 22-68 inclusive, are home study courses. During each working period, engineering students are given weekly assignments consisting of practical problems in mathematics, physics, economics and English as well as special problems in their particular fields.

1-2. ORIENTATION. First semester. One credit.

This course helps the entering student to decide what branch of Engineering he wants. Lectures by prominent engineers are alternated with the showing of industrial pictures.

ASSOCIATE PROFESSOR GILMOUR

22. MECHANICS PROBLEMS. Second semester. Two credits.

Trigonometry is applied to practical problems in mechanics. Review is given in the resolution and composition of forces and velocities. Prerequisites, Mathematics 51, and Physics 51.

MR. SMITH

31-32. MATHEMATICS AND PHYSICS PROBLEMS. First and second semesters. Two credits each semester.

The problems in this course involve trigonometry, algebra, concurrent and non-concurrent forces, and center of gravity. Prerequisites, Mathematics 52-53, and Physics 52-53.

ASSOCIATE PROFESSOR GILMOUR

41-42. SELECTED READINGS. First and second semesters. Two credits each semester.

Weekly assignments are given in reading from a selected list of books of varied content. The course purposes to broaden the point of view of the engineering student.

MISS RAW

51-52. ENGINEERING PROBLEMS. First and second semesters. Two credits each semester.

These courses consist of problems which review the work given in C. E. 16 and C. E. 26 respectively, and which illustrate topics not taken up in those courses. Prerequisites, Mathematics 56, Physics 54, and C. E. 16.

ASSISTANT PROFESSOR BULGER

53-54. ELECTRICAL ENGINEERING PROBLEMS. First and second semesters. Two credits each semester.

This is a reading course with suitable problems such as electric wiring, armature winding, etc., and is intended for students in Electrical Engineering who have completed E. E. 5.

PROFESSOR WALTHER

55-56. SPECIAL M. E. PROBLEMS. First and second semesters. Two credits each semester.

This course consists of problems in applied mechanics and mechanism. Prerequisites, M. E. 21, and M. E. 31.

ASSISTANT PROFESSOR UPP

57. INDUSTRIAL ENGINEERING PROBLEMS. First semester. Two credits. The student is given a series of problems as to labor in industry and merchandising for the purpose of determining guiding factors in dealing with such problems.

PROFESSOR ADENDORFF

58. INDUSTRIAL ENGINEERING PROBLEMS. Second semester. Two credits. The student is given problems relating directly to the personnel department of an industry so as to familiarize him with some of the internal conditions met with in industry. PROFESSOR ADENDORFF

61-64. ADVANCED C. E. PROBLEMS. First and second semesters. Two credits each semester.

This course is for Civil Engineering seniors. Short problems are given in such subjects as concrete design, sewerage, and structural design.

PROFESSOR DURST

62. ENGINEERING PROBLEMS. First and second semesters. Two credits each semester.

The course requires a solution of problems illustrating the theoretical principles of the larger economic problems of money and banking, railroads, trusts and taxation. Prerequisite, Economics 22.

ASSISTANT PROFESSOR ANTHONY

65-66. ADVANCED M. E. PROBLEMS. First and second semesters. Two credits each semester.

This course is for Mechanical Engineering seniors. It consists of a series of problems relating to steam power plant engineering and machine design.

ASSISTANT PROFESSOR UPP

67-68. ELECTRICAL ENGINEERING PROBLEMS. First and second semesters. Two credits each semester.

This course is open only to Electrical Engineering seniors. The problems of the course review the theory given in the Electrical Engineering courses of the pre-junior and junior years.

PROFESSOR WALTHER

71-72-73-74. INSPECTION TRIPS. Summer term. Two credits.

These trips include visits to prominent industries in Akron and adjacent cities such as Barberton, Massillon, Canton, and Cleveland. The student is required to provide his own transportation and must submit comprehensive written reports.

PROFESSORS DURST, GRIFFIN, AND WALTHER

81-82. AERONAUTICAL PROBLEMS. First and second semesters. Two credits each semester.

Weekly assignments of readings in government and other publications on aerodynamics amplifying Aeronautics 1 and 2 are given and outlines required.

MR. QUEEN

83-84. AERONAUTICAL PROBLEMS. First and second semesters. Two credits each semester.

Weekly assignments of readings in government and other publications on airplane stress analysis and materials of construction amplifying Aeronautics 3-4 are given and outlines required.

MR. QUEEN

ECONOMICS

A.23-24. ECONOMICS FOR ENGINEERS. First and second semesters. Five co-operative credits each semester.

This course covers the basic principles of economics. It takes up production, consumption, distribution, money and credit, transportation and trade, and some of the modern economic problems.

PROFESSOR DAVIS

ENGLISH

81-82. ENGLISH COMPOSITION. First and second semesters. Four credits each semester.

Steady practice is given in writing technical descriptions, explanations, and professional letters, and in informal oral argumentation. Students are encouraged also to give imaginative interpretation and presentation of the work of the engineer. Correctness in sentence structure, punctuation, and spelling is strictly insisted upon.

MISS RAW

85-86. ENGLISH LITERATURE. First and second semesters. Two credits each semester.

Modern novels and short stories are read for their cultural and recreational value, and essays on scientific and engineering subjects are studied for the purpose of finding the literary and philosophical values in non-literary subjects. Supplementary reading is an important part of the course.

MISS RAW

MATHEMATICS

PROFESSOR JONES, ASSISTANT PROFESSOR BENDER, ASSISTANT PROFESSOR SILBERFARB, MISS LIPSCOMBE, MRS. LEIGH.

51. TRIGONOMETRY. First and second semesters. Five credits each semester.

The following topics are studied: angles and their measurements; the trigonometric function; fundamental identities; reduction, addition and multiplication theorems; trigonometric equations; inverse trigonometric functions; logarithms; right and oblique triangles.

ASSISTANT PROFESSORS BENDER AND SILBERFARB,
MISS LIPSCOMBE, MRS. LEIGH

52. ALGEBRA. First and second semesters. Five credits each semester.

This course includes a review of elementary algebra, and takes up the study of surds, linear and non-linear equations, proportion, variation, progressions, binomial theorem, permutations and combinations.

ASSISTANT PROFESSORS BENDER AND SILBERFARB,
MISS LIPSCOMBE, MRS. LEIGH

53. ANALYTIC GEOMETRY. First semester. Four credits.

This course takes up such topics as loci, the straight line, circle, conic sections, polar curves, transformation of co-ordinates, parametric curves, and a few facts concerning space loci. Prerequisite, 51-52.

ASSISTANT PROFESSOR BENDER

54. DIFFERENTIAL CALCULUS. Second semester. Four credits.

A study of the following subjects is taken up: average and instantaneous rates, the differentiation of the ordinary algebraic and transcendental functions, implicit functions, differentials, maxima and minima, and applications to geometry and physics. Prerequisite, 53.

ASSISTANT PROFESSOR BENDER

55. INTEGRAL CALCULUS. Summer session. Six credits.

In this course the technique of the integration of the functions usually found in the applications of the calculus to geometry, physics, and engineering is developed. Prerequisite 54.

PROFESSOR JONES

56-57. INTEGRAL CALCULUS. First and second semesters. Four credits each semester.

Development in series, partial differentiation, double and triple integrals, applications to finding length of arcs, areas, volumes, center of gravity, pressure, moment of inertia, radius of gyration, work, motion, also applications to engineering problems, solution of simple differential equations, derivation of formulas. Prerequisite, 55. PROFESSOR JONES

PHYSICS

PROFESSOR HOUSEHOLDER, ASSISTANT PROFESSOR ROLLEFSON, MR. FOUTS.

51. FRESHMAN MECHANICS. First or second semester for co-operative students. Four credits. (Eight co-operative hours.)

This is an elementary course in statics including the study of forces in equilibrium, frictional forces, work, power and energy, and the elements of hydrostatics. No student is permitted to enter this course unless he has had, or is taking, freshman mathematics, and no one failing in the first semester of mathematics will be allowed to continue this course. Two recitations and two two-hour laboratory periods weekly. MR. FOUTS

52. FRESHMAN MECHANICS. Second semester. Five credits.

An intensive review of the principles of equilibrium and their application to problems involving simple frame work, trusses, pier reactions, center of gravity, hoisting devices, etc. Prerequisites, Physics 51 and Trigonometry. Three recitations and two two-hour laboratory periods per week. MR. FOUTS

53-54. SOPHOMORE MECHANICS. First and second semesters. Six credits each semester.

A continuation of Physics 51 but more advanced, covering translatory and rotatory motion with the effect of forces and torques in producing them, moment of inertia, elasticity, vibratory motion. Kinematics, kinetics, moment of inertia, elasticity, simple harmonic motion, sound, magnetism and electricity. Students must have completed Physics 51 and have had or be taking the calculus. Four recitations and two two-hour laboratory periods per week. ASSISTANT PROFESSOR ROLLEFSON

55. HEAT. First semester. Five credits.

A short course covering the fundamental concepts of the theory of heat and its measurements, with special emphasis on their applications in engineering. Three recitations and two two-hour laboratory periods per week. Prerequisites, Physics 51. MR. FOUTS

56. WAVE MOTION, LIGHT, AND SOUND. Second semester. Five credits.

An elementary course in wave motion and its applications to the study of sound and light. Particular emphasis is put upon the engineering phase of the subject. Prerequisites, Physics 53-54. Three recitations and four hours laboratory work per week. PROFESSOR HOUSEHOLDER

SPEECH

91-92. PUBLIC SPEAKING. Two credits each semester.

A course in practical public speaking, including some reading, some written work, and considerable impromptu and extempore speaking.

PROFESSOR HAYWORTH

FINANCE MAJOR

Courses	Credit Hours	Prerequisites
Security Markets 74	3	Economics 2
Investments A.6	3	A.4 and C.73
Public Finance 76	3	C.73
Insurance	3	Economics 2
Banking Practice	3	A.4
Problems in Finance 78	3	A.4 and C.73
Finance Seminar	2	

ADVERTISING AND MARKETING MAJOR

Courses	Credit Hours	Prerequisites
Sales Administration 86	3	C. 81
Salesmanship 85e	2	Sophomore
Retailing 88e	3	C. 81
Marketing 81	3	Economics 2
Advertising Campaigns 94	3	C. 82
Consumers Demand 85	3	C. 81
Commercial Art A.14-15	4	
Marketing Seminar	2	

MANAGEMENT MAJOR

Courses	Credit Hours	Prerequisites
Cost Accounting 33	3	9 hours Accounting
Purchasing 95e	2	C. 61
Production Methods I. E. 3	3	C. 61
Personnel Management 64	3	C. 61
Industrial Management Problems I. E. 5	3	Production Methods
Management Seminar	2	

GENERAL BUSINESS MAJOR

Courses	Credit Hours	Prerequisites
Cost Accounting 33	3	9 hours Accounting
Purchasing 95e	2	Economics 2
Problems in Finance 78	3	C.73
Advanced Statistics 58	3	C.57
Sales Administration 86	3	C.81
Personnel Management 64	3	C.61
Transportation 53	3	Economics 2
General Business Seminar	2	

COMMERCE

PROFESSOR LEIGH, ASSISTANT PROFESSOR ANTHONY, MR. MCKEE,
MR. VAN METRE, MR. TINKLEPAUGH, MR. LEWERS, MR. PARK.

SPECIAL LECTURERS: F. A. Climer, Manager of Personnel Department, Goodyear Tire & Rubber Co.; R. R. Gross, Works Manager, Firestone Tire & Rubber Co.; H. H. Hollinger, Comptroller, Firestone Tire & Rubber Co.; S. B. Kramer, Production Control Department, Goodyear Tire & Rubber Co.; C. F. Marshall, Purchasing Agent, The Seiberling Tire & Rubber Co.; J. P. Woodlock, Specialized Sales Department, The B. F. Goodrich Company.

I. PLANT TRIPS. First semester. One credit.

In order to give entering Commerce students a familiarity with organization and operation of trade and industry, a series of visitations is made to representative industries. Outline studies are made and special reports prepared.

3. INDUSTRIAL STUDIES. Summer. No credit.

All students during the summer following the freshman or sophomore years will work nine weeks in industry. In order to be guided and directed during this practice period, they will submit special investigations and an experience report covering the outlines which will be given.

4. JUNIOR INDUSTRIAL STUDIES. Summer. No credit.

During the summer following the junior year, all Business Administration students will be required to secure employment for at least a period of nine weeks in the field of their major interest. Special investigations and an experience report will be required of them.

11. ECONOMIC GEOGRAPHY. Each semester. Three credits.

This introductory course develops a conception of environmental elements such as climate, land forms, soils, mineral resources, and vegetation, and shows their influence upon economic activity. It analyzes physical factors which constitute the basis of trade, population movements, and international strife. Required of all Commerce students.

MR. VAN METRE

12. ECONOMIC HISTORY OF THE UNITED STATES. Each semester. Three credits.

A short study is made of those features in England which have influenced the industrial life in the United States. Such topics are considered as exploration and settlement, land policies, population growth, growth of commerce, crises, industrial combination, development of banking institutions and railroad systems, tariff, labor unions, and government regulation. Required of all Commerce students.

ASSISTANT PROFESSOR ANTHONY

21-22. ACCOUNTING. First and second semesters. Three credits each semester.

This course introduces the student to the details of business management. The recording of important transactions such as the acquisition of assets and their depreciation, incurring of expenses, and making purchases and sales, are considered. Attention is directed to the balance sheet and the statement of profit and loss, their construction, and use. Required of all Commerce sophomores.

MR. MC KEE, AND OTHERS

23. MANAGERIAL ACCOUNTING. First semester. Three credits.

This course summarizes, develops and analyzes accounting procedure. Financial statements are studied intensively. The general purpose is to develop a concise working knowledge of more advanced accounting used by production, sales and administrative executives in determining administrative, credit, and expansion policies. Prerequisite, Accounting 31.

MR. MC KEE, AND OTHERS

28. ACCOUNTING. First semester. Six co-operative credits.

This course is for advanced Engineering students. It covers the forms used by a foreman or a superintendent in a factory and enables the engineer to interpret such forms as profit and loss statements, balance sheets, production statements and store records.

MR. MC KEE, AND OTHERS

31-32. ACCOUNTING. First and second semesters. Three credits each semester.

This is a continuation of 21-22 which is a prerequisite. In addition to the text, graded problems are used to illustrate the balance sheet and the profit and loss statement, analysis of profits, application of funds, capital expenditures and depreciation policies, determination of cost for inventory valuations, installment accounts, etc.

MR. MC KEE

33. COST ACCOUNTING. First semester. Three credits.

This course is designed to give a clear insight into general methods of collecting costs of materials, labor, and burden of incorporating them into the books of account; various methods of distributing burden costs and methods of cost control. Prerequisite, Accounting 32. MR. MCKEE

34e. ADVANCED COST ACCOUNTING. Second semester. Two credits.

This course is an intensive course in Cost Accounting. The student is led into the particular processes of cost technique and detail. Investigations and surveys are made, particular industries and the systems are designed and cost rates and budgets are adapted to these industries. Given in alternate years. Prerequisite, Accounting 33. MR. MCKEE

35. AUDITING. First semester. Three credits.

The student is herein introduced to the elementary problems of auditing; namely, the preparation of accounts for an audit, the examination of the books of account, the nature of audits, and the general method of audit procedure. A complete audit is undertaken step by step and a complete audit report from the working records is constructed. Prerequisite, Accounting 32. MR. MCKEE

36e. ADVANCED AUDITING. Second semester. Two credits.

Investigations are made of special branches of industry such as banks, municipalities and public utilities. The specific details of audits are elaborated with a view of fully equipping the student with the modern methods of audit procedure and analysis. Given alternate years. Prerequisite, Accounting 35. MR. MCKEE

37-38e. ACCOUNTING PROBLEMS. First and second semesters. Three credits each semester.

This course is designed for students who intend to enter the accounting profession. The problems cover such topics as partnerships, corporations, executors, trustees, consolidated statements, capital requirements and actuarial science. Open to seniors and to others with the consent of the instructor. Prerequisite, 31-32. MR. MCKEE

121. ACCOUNTING SEMINAR. Second semester. Maximum, two credits.

This course is required of all students qualifying for degrees with a major in Accounting. Each student is required to make a thorough study of some problem in this field. The topic must meet the approval of the faculty. Credit is dependent upon the quality of work done.

41-42. BUSINESS LAW. First and second semesters. Two credits each semester.

The origin of commercial law, the operation and discharge of contracts, the law of sales, agency, and negotiable instruments, partnerships and corporation are studied, giving attention to the statutes which form the working machinery for economic activity. Open to Commerce sophomores and to others with the consent of the instructor. MR. PARK

53. TRANSPORTATION. Second semester. Three credits.

A study is made in this course of the American transportation system from the points of view of the economist, the shipping public, and the

transportation administrator. The course takes up the part played by transportation in the production, exchange and distribution of wealth, service, rate making, valuation, and federal regulation. Prerequisite, Principles of Economics. Given in 1931-32 and alternate years.

MR. MC KEE

55. RISK BEARING AND INSURANCE. Second semester. Three credits. The risks in our economic order, and the methods, devices, and institutions which have evolved to deal with these risks. Special attention is given to the risk bearing activities of such institutions as speculative exchanges and insurance companies. Insurance in all its applications is emphasized. Prerequisite, Principles of Economics. Given in 1931-32 and alternate years.

57. STATISTICS. First semester. Four credits. In this course the student is taught to apply the scientific method to business and social problems. Emphasis is placed on the use of surveys, accounting, analyses and group tests, and the collection and use of statistical data. Prerequisite, Principles of Economics. Given in 1931-32 and alternate years.

MR. VAN METRE

58. ADVANCED STATISTICS. Second semester. Three credit hours. A brief summary of the work covered in Elementary Statistics is followed by advanced work on index numbers of prices and physical volume, measurement of trend, linear, multiple and partial correlation, analysis of time series, and probabilities and normal error. The laboratory work makes application of the principles presented in the class room. Each student works a special statistical problem. Given in 1931-32 and alternate years.

MR. VAN METRE

59. PROBLEMS IN BUSINESS ECONOMICS. First semester. Three credits. This is an advanced course which synthesizes all the knowledge of economics the student has gathered in other courses. The ways and means of controlling economic activity for social ends are analyzed. Such topics as monopoly, regulation of railroads, labor problems, population movements, and public taxation are discussed. Open to seniors and to others with the consent of the instructor.

PROFESSOR LEIGH

141. GENERAL BUSINESS SEMINAR. Second semester. Maximum, two credits.

This course is required of all students qualifying for degrees with a major in General Business. Each student is required to make a thorough study of some problem in this field. The topic must meet the approval of the faculty. Credit is dependent upon the quality of the work done.

61. BUSINESS ADMINISTRATION. First semester. Three credits. This is a survey course in which the business establishment is considered as a unified concern composed of various departments such as finance, production, distribution, and accounting. The managerial viewpoint is taken throughout. Class work is supplemented by problems and trips. Required of all Commerce sophomores.

PROFESSOR LEIGH

62. **BUSINESS MANAGEMENT.** Second semester. Three credits.
The problems of management in delegating authority and co-ordinating activities, standardization, determination of administrative, sales, production, personnel and financial policies, and administrative control and executive leadership are studied. Problems and case studies play a prominent part in the course. Prerequisite, 61. PROFESSOR LEIGH
64. **PERSONNEL MANAGEMENT.** Second semester. Three credits.
This course covers job analysis, selection and maintenance of a labor supply, placement and promotion, elimination of risks, co-operation between employers and employees, and employee participations in ownership or management. Prerequisite, 61. Given in 1931-32 and alternate years.
68. **PROBLEMS IN BUSINESS POLICY.** Second semester. Three credits.
This is a problem course in management policies, dealing with organization, plant expansion, labor, control and distribution policies. The problems are drawn from real business situations and are aimed to make the student exercise initiative and resourcefulness in his attack on business problems. Open to seniors and others only with the consent of the instructor. Given in 1930-31 and alternate years. PROFESSOR LEIGH
161. **MANAGEMENT SEMINAR.** Second semester. Maximum, two credits.
This course is required of all students qualifying for degrees with a major in Management. Each student is required to make a thorough study of some problem in this field. The topic must meet the approval of the faculty. Credit is dependent upon the quality of the work done.
72. **THE FEDERAL RESERVE SYSTEM AND MONEY POLICIES.** Second semester. Three credits.
This is a comprehensive study of the Federal Reserve system, the discount policy, the need and working of a centralized banking system, and methods of stabilizing credit during the fluctuations of the business cycle. Prerequisite, Money and Banking A3. MR. VAN METRE
73. **BUSINESS FINANCE.** First semester. Three credits.
A basic and comprehensive course in finance. The financial structure and operation, the uses and sources of funds, the relation of the business executive to his bank, and the safeguarding of credit are studied. The financial needs and operation of both large and small businesses are equally stressed. Prerequisite, Money and Banking A3. MR. VAN METRE
74. **SECURITY MARKETS.** Second semester. Three credits.
Markets and their influence on the price of securities, elements of security appraisal and methods of computing net earnings, amortization, rights and conversions, will be studied. Various forms of securities will be considered. Prerequisite, Business Finance 73. Given in 1931-32 and alternate years. MR. VAN METRE
76. **ELEMENTS OF PUBLIC FINANCE.** Second semester. Three credits.
Principles that should guide the city, state, or nation in raising and expending revenue. The sources of revenue, principles of taxation, governmental securities, fields of expenditure, and control of expenditures, are examined. Prerequisite, Principles of Economics and one course in Finance. Given in 1930-31 and alternate years. MR. VAN METRE
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78. PROBLEMS IN FINANCE. Second semester. Three credits.
 Topics to be studied include corporate organization in modern business, legal organization, instruments of finance, promotion, underwriting, capitalization, earning, expenses, surplus, manipulation, insolvency, receivership, re-organization and regulation. Working capital problems and control will be emphasized. Prerequisite, Business Finance 73. Given in 1930-31 and alternate years. MR. VAN METRE

171. FINANCE SEMINAR. Second semester. Maximum, two credits.
 Required of all students qualifying for degrees with a major in Finance. Each student is required to make a thorough study of some problem in this field. The topic must meet the approval of the faculty. Credit is dependent upon the quality of the work done.

81. MARKETING. First semester. Three credits.
 Among the topics covered in this course are the functions of marketing, middlemen and their place in the market structure, retail types and policies, consumer and producer co-operation, market finance, associative activities, cost of marketing, prices and price factors. Open to juniors and pre-juniors. Prerequisite, Economics A. 21-22. PROFESSOR LEIGH

83e. SALESMANSHIP. First and second semesters. Two credits.
 The economics of selling are examined. The selling price, the preparation of sales talks, and plans form a major part of the course. Laboratory practice in the analysis of sales need and the presentation of sales talks are given. MR. AMMERMAN

85. CONSUMER DEMAND. Second semester. Three credits.
 Principles underlying consumption as an aid toward marketing and advertising. What demand is, how elastic it is, how it can be modified or guided, the economics of style and fashion, the effect of consumer's income and credit, and the measuring of demand. Prerequisite, Economics. A. 21-22. Given in 1931-32 and alternate years. PROFESSOR LEIGH

86. SALES ADMINISTRATION. Second semester. Three credits.
 Problems of marketing from the administrative standpoint. Problems of product and market analysis, demand creation, distribution, salesmen, sales campaigns, statistics, and summaries for managerial control. Prerequisite, 81. PROFESSOR LEIGH

88e. RETAILING. Second semester. Two credits.
 A study is made of the development, types, and significance of the various retail institutions. The best practices of merchandising, display, and retail selling as well as the co-ordination of consumer needs and retail buying are considered.

89. PROBLEMS IN SALES PROBLEMS. Second semester. Three credits.
 An advanced course covering the selection, training, compensation, management, and control of the sales force, and co-operation of the house,

the salesmen, the advertising department, and the dealers. Methods of correlating the sales and production departments and of analyzing the market are given particular attention. Prerequisite, 86.

PROFESSOR LEIGH

92. PRINCIPLES OF ADVERTISING. Second semester. Three credits.

This course treats the problems and scope of advertising and its place in business, human aspects of the market, appeals, presentation of appeals, media, and special fields of advertising. Class work is supplemented by special problems. Open to pre-juniors and juniors. PROFESSOR LEIGH

94. ADVERTISING CAMPAIGN. Second semester. Three credits.

The principles established in the elementary course will be more intensively treated in this advanced course and the student will be expected to apply them in working out an advertising plan, complete layouts and copy, and launch a campaign for a particular product. Proper media will be selected, the campaign scheduled, and all promotional activities necessary to secure the effective co-operation of the dealers will be drawn up. Prerequisite, Principles of Advertising 92. MR. LEWERS

95e. PURCHASING. First semester. Two credits.

This is a course covering the fundamentals of purchasing. The organization of the purchasing department and the systematization of the purchasing routine; the determination of material need; providing the adequate sources of supply; the procurement of the right price and the relation of purchasing to stores are the major subjects considered.

181. ADVERTISING AND MARKETING SEMINAR. Second semester. Maximum, two credits.

This course is required of all students qualifying for degrees with a major in Advertising and Marketing. Each student is required to make a thorough study of some problem in this field. The topic must meet the approval of the faculty. Credit is dependent upon the quality of the work done.

GENERAL COURSES FOR COMMERCE STUDENTS

Commerce students are required to take Economics 21-22. Money and Banking A.3, and the courses in Political Science listed hereafter. Additional courses in Economics may be elected from those described.

The letter "A" prefixed to a course number indicates that the course is given in the College of Liberal Arts. The letter "T" refers to the Teachers College.

ART

MRS. BARNHARDT

T.14-15. COMMERCIAL ART. First and second semesters. Two credits each semester.

A course embracing the principles of advertising in connection with page arrangement, magazine, newspaper, and poster layout. Standard forms of lettering and adaptation of material to reproducing processes.

ECONOMICS

PROFESSOR DAVIS, ASSISTANT PROFESSOR ANTHONY

A.21-22. **ECONOMICS.** First and second semesters. Three credits each semester.

This course is the foundation for all other courses in Commerce. It considers production, consumption and distribution of wealth; labor problems; money and banking, international trade and exchange; economic crises; transportation; agricultural problems; social programs; public receipts and expenditures. Required of all Commerce students.

A.3. **MONEY AND BANKING.** Second semester. Three credits.

This course considers the principles and functions of money, credit and banking, credit instruments, credit and banking institutions, with especial attention to the Federal Reserve System. Prerequisite, 3 hours of Economics.

A.4. **FOREIGN TRADE AND FOREIGN EXCHANGE.** Second semester. Three credits.

Recent tendencies in the foreign trade of the United States, principles of comparative cost, balance of trade, ocean shipping, handling and financing foreign trade, foreign bills of exchange, import and export credits, gold movements and the influence of investment and speculation, international creditor and debtor aspects, and governmental interference with rates of exchange and foreign trade. Prerequisite, 6 hours of Economics.

A.5. **CORPORATION ORGANIZATION AND FINANCE.** First semester. Three credits.

The different forms of business organization; the formation, promotion, and financial policies of corporations; nature and elements of capitalization, varieties of securities, methods of underwriting, distribution of profits, financing, failure and reorganization. Prerequisite, 6 hours of Economics.

A.6. **INVESTMENT.** Second semester. Three credits.

This course deals with the nature, principles, classification and technique of investment; real estate loans; national, state and municipal bonds; investment analysis; railroad, public utility, industrial and financial institution securities. Prerequisite, 6 hours of Economics.

MATHEMATICS

PROFESSOR JONES, MRS. LEIGH

58. **MATHEMATICS OF FINANCE.** First semester. Three credits.

This course takes up a study of simple and compound interest, annuities, depreciation, amortization, bond valuation, building and loan associations, the elements of the mathematics of life insurance. For Commerce students.

MRS. LEIGH

POLITICAL SCIENCE

PROFESSOR CRECRAFT

A.1. PROBLEMS OF CITIZENSHIP. First semester; repeated the second semester. Three credits.

This is a survey of a group of selected problems of citizenship with equal emphasis placed respectively upon social, economic, and political problems. It is an introductory course to the social and political sciences, based on text books, readings, and discussions.

A.2. AMERICAN GOVERNMENT. Second semester; also given the first semester. Three credits.

This course gives the student an introductory survey of the basic principles, the practical administration, and the foreign relations of the American Government.

A.20. GOVERNMENT AND BUSINESS. Second semester. Three credits.

This course is intended to acquaint students with the relation of government to business. It covers the following topics: necessity for regulation, methods of control, regulating bodies, government ownership, regulation of competition, control of corporations, trusts and labor organizations, government promotion, public activities of business organizations, elements of a national business policy, and activities of governmental agencies and departments. Open to juniors.

PROFESSOR CRECRAFT

SECRETARIAL SCIENCE

Two courses of study are offered in Secretarial Science, a four-year course (128 semester hours) leading to the degree B.S. in Secretarial Science, and a two-year course (64 semester hours) for the completion of which a certificate is granted.

The four-year curriculum is designed for those who wish to prepare themselves for the higher grade secretarial and office positions without spending more than four years beyond the high school in preparation. In recognition of the fact that a broad background is invaluable in the upper levels of business, one-half the course is required in academic subjects which provide an introduction to the most important fields of human knowledge and furnish the student with the most essential elements of a standard college education. The required technical subjects provide the needed gateway into the business world, so that at graduation the student is prepared to enter his chosen field. The elective subjects which complete the course may be adapted to the needs of each individual, but must be chosen so that, in addition to the required major in Secretarial Science, there will be a minor of at least eighteen hours, including Freshman courses, in one field or in two related fields.

The two-year curriculum is designed for those with a capacity for something higher than mere routine stenographic or clerical work, but who prefer not to spend more than two years on the college level in preparation. Technical subjects naturally constitute a larger proportionate part of this curriculum than of the four-year.

Those who have had shorthand and typewriting before entrance will begin these courses in college at such point as their degree of proficiency permits, and approved electives, preferably academic subjects, will be taken in place of the shorthand and typewriting omitted in the college course.

Credit for college work in either shorthand or typewriting is indicated by the following table:

High School credits	Course entered in college	Credit given
1 year	{ Second year	{ Full credit
	{ First year	{ Half credit
2 years	{ Second year	{ Full credit
	{ First year	{ No credit

Men enrolled in the four-year course must meet the requirements of the Reserve Officers Training Corps.

Those who enter with advanced standing may be excused from Problems of Citizenship or Human Biology, for which more advanced courses will be substituted.

It is recommended that practical experience be secured during the summer vacations if possible. The Bureau of Student Employment is frequently able to place students in suitable positions. During the college year a limited number of student assistantships are available in the administrative offices of the University. Those who do part-time work should lighten their schedules accordingly.

The academic subjects listed below are described in the Buchtel College section of the general catalog and in the Buchtel College Bulletin, listed alphabetically by departments. The letter "C" indicates a course in Commerce; the letter "S" Secretarial Science. Sixteen semester hours (recitation hours per week) constitute the normal load.

OUTLINE OF TWO-YEAR CERTIFICATE COURSE

FIRST YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Rhetoric (English 1)	3	Rhetoric (English 2)	3
Secretarial Duties S. 1	3	Secretarial Duties S. 2	3
Problems of Citizenship (Political Science 1)	3	Human Biology	3
Physical Training	1	Physical Training	1
Shorthand S. 21	3	Shorthand S. 22	3
Typewriting S. 31	2	Typewriting S. 32	2
Approved Electives	1 to 3	Approved Electives	1 to 3

SECOND YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Business Correspondence S. 5	3	Office Organization S. 6	3
Economics	3	Economics	3
Accounting C. 30	3	Accounting C. 31	3
Physical Training (Men)	1	Physical Training (Men)	1
Shorthand S. 23	3	Shorthand S. 24	3
Typewriting S. 33	2	Typewriting S. 34	2
Approved Electives	1 to 3	Approved Electives	1 to 3

OUTLINE OF FOUR-YEAR DEGREE COURSE GENERAL REQUIREMENTS

ACADEMIC		NON-ACADEMIC	
	Cr. Hrs.		Cr. Hrs.
English (Rhetoric 6. Literature 6)	12	Secretarial Duties S. 1-2	6
Laboratory Science (Physics, Chemistry, Biology or Botany)	8	Business Correspondence S. 5	3
Human Biology	3	Office Management S. 10	3
Problems of Citizenship	3	Shorthand	15
Mathematics (College Algebra)	4	Typewriting	8
Economics	6	Accounting C. 30-31	6
History	6	Business Law C. 40-41	4
Political Science	6	Physical Training	2
Psychology or Sociology	6	Free electives approved for the B. S. degree	17
Academic Electives	10		64
Minimum Academic	64		

SUGGESTIVE OUTLINE BY YEARS

FIRST YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Rhetoric (English 1)	3	Rhetoric (English 2)	3
Secretarial Duties S. 1	3	Secretarial Duties S. 1	3
Problems of Citizenship (Political Science 1)	3	American Government (Political Science 2)	3
Algebra (Mathematics 1)	4	Human Biology 13 or 15	3
Physical Training	1	Physical Training	1
Electives	2	Electives	3

SECOND YEAR

First Semester		Cr. Hrs.	Second Semester		Cr. Hrs.
Shorthand S. 21	.....	3	Shorthand S. 22	.....	3
Typewriting S. 31	.....	2	Typewriting S. 32	.....	2
Economics 1	.....	3	Economics 2	.....	3
Laboratory Science	.....	4	Laboratory Science	.....	4
Electives	.....	4	Electives	.....	4

THIRD YEAR

First Semester		Cr. Hrs.	Second Semester		Cr. Hrs.
Shorthand S. 23	.....	3	Shorthand S. 24	.....	3
Typewriting S. 33	.....	2	Typewriting S. 34	.....	2
Accounting C. 30	.....	3	Accounting C. 31	.....	3
History	.....	3	History	.....	3
Sociology or Psychology	.....	3	Sociology or Psychology	.....	3
Electives	.....	2	Electives	.....	2

FOURTH YEAR

First Semester		Cr. Hrs.	Second Semester		Cr. Hrs.
Business Correspondence S. 5	.....	3	Shorthand S. 26	.....	3
Business Law C. 40	.....	2	Office Management S. 10	.....	3
Literature	.....	3	Business Law C. 41	.....	2
Political Science	.....	3	Literature	.....	3
Electives	.....	5	Political Science	.....	3
			Electives	.....	2

SECRETARIAL SCIENCE

MR. DOUTT, MISS FLINT

1. SECRETARIAL DUTIES. First semester. Three credits.
 This fundamental course, required of all freshmen in Secretarial Science, aims to acquaint the student with the origin, nature, and scope of secretarial work, and with the duties performed in a modern office. Among the subjects considered are the handling and answering of mail; the securing of information; the preparation of itineraries, budgets, speeches, reports, and documents; proofreading; and the writing of minutes.

MR. DOUTT

2. SECRETARIAL DUTIES. Second semester. Three credits.
 Instruction is given in all of the major filing systems in use in the business office, and in the use of the chief types of office machines.

MR. DOUTT, MISS FLINT

5. BUSINESS CORRESPONDENCE. First semester. Three credits.
 In applying the principles of English composition to business letter writing, both theory and practice are emphasized. Various types of business correspondence, such as sales letters, collection letters, applications for positions, adjustment letters, and business reports are written, examined, and criticized. Prerequisite, Rhetoric 1-2.

MR. DOUTT

6. OFFICE ORGANIZATION. Second semester. Three credits.
 An analysis of the modern business office and its historical development, including such matters as the functions of the office, disposition of space, light, heat, ventilation, furniture, equipment and mechanical devices in the office, departmental organization, and various types of records. Open to all upper classmen.

MR. DOUTT

10. OFFICE MANAGEMENT. Second semester. Three credits.
 This course analyzes the office task from a scientific viewpoint, with especial reference to methods of improving existing conditions. The

problems of office layout, routing of office work, personal motivation, handling of personnel, and standardizing office tasks are emphasized. Open only to juniors and seniors. MR. DOUTT

21. SHORTHAND. First semester. Three credits.

This course is designed to give beginners in the Gregg system a thorough introduction to shorthand theory. MISS FLINT

22. SHORTHAND. Second semester. Three credits.

The second semester completes Gregg theory and begins practice in dictation. While no attempt is made to secure speed, emphasis being rather on accuracy and development of an extensive vocabulary, at the end of the year the student should be able to take a wide variety of dictation at a moderate rate and to read notes accurately. Prerequisite, Shorthand 21. MISS FLINT

23-24. SHORTHAND. First and second semesters. Three credits each semester.

Dictation practice begins with simple letters and articles, and proceeds gradually through a wide variety of increasingly difficult material, designed to develop speed, to convey a broad understanding of business terminology, and to provide extensive contact with the best forms of English expression. Prerequisite, Shorthand 22 or equivalent. MISS FLINT

26. SHORTHAND. Second semester. Three credits.

The vocabulary is further extended by practice in reporting short-cuts, court reporting phrases, and technical words. Shorthand plates are read and practiced. Congressional records, testimony, and jury charges are used for dictation. The development of speed is stressed. Prerequisite, Shorthand 24. MISS FLINT

31-32. TYPEWRITING. First and second semesters. Two credits each semester.

This course not only provides thorough instruction in the touch system of typewriting, but includes also the care and use of the machine; practice in drawing up various business forms; drills in spelling, capitalization, and punctuation; use of carbon paper; simple tabulations; etc. MISS FLINT

33-34. TYPEWRITING. First and second semesters. Two credits each semester.

The rapid transcription of letters, articles, speeches, and reports is followed by the taking of dictation directly on the machine. Practice is provided in legal work, difficult tabulations, and preparation of stencils. Special attention is paid to the most approved methods of arranging letters, reports, manuscripts, and documents of various kinds. Prerequisite, Typewriting 32. MISS FLINT

39. TYPEWRITING. Second semester. Two credits.

While this course is of the same grade as S31, it has been especially planned to present the essentials of touch typewriting to those who can devote only one semester to the subject. The preparation of business reports is emphasized. MISS FLINT

THE TEACHERS COLLEGE

W. J. BANKES, A. M., *Dean*

GENERAL INFORMATION

The Teachers College was established in 1921 in co-operation with the Akron Board of Education, replacing the former Perkins Normal School of Akron. Teachers College is supported by both educational systems and for its faculty draws upon the teaching staff of both the Public Schools and the University. The work is specifically organized for the preparation and training of teachers for the Akron Public School System, the professional improvement of teachers already engaged in the Public School service, and the study of educational problems.

In general, the Teachers College is expected to achieve three purposes. The first of these is the affiliation of teacher training with the various colleges of the University, a situation which gives opportunity to all teachers in training to receive academic preparation along with the professional training.

Teacher training is based upon a broad academic field of knowledge and is applied to the actual educational situation as it exists in Akron. The Board of Education encourages this broader training by inducements in salary. The first year in the Akron Public Schools is try-out year. Graduation does not insure appointment to a teaching position in Akron. Selection is made on the basis of excellence in scholarship, professional training, personality and character.

The second purpose is to increase very considerably the opportunities for continued training for teachers already in service. Evening and Saturday courses are offered for those who wish them. It is hoped many will take courses leading to degrees and that the whole college organization will function as a source of knowledge, assistance and inspiration to the teachers in service.

The third purpose is to bring teacher training into closer contact with the instructional, supervisory and administrative forces of the city. The real, vital problems of education may thus be studied by all who represent these forces. In this way the vigorous progressive phases of school work in the city will be reflected in the training courses, and the study of these problems by the Teachers College will bring suggestions for methods in teaching, for new forms of training, and for various modifications of school work.

All students are under the rules governing students of the University and are entitled to all the privileges of the institution.

ENTRANCE REQUIREMENTS

The following supplements the statement of general entrance requirements made on introductory pages.

The requirement for unconditional entrance is 15 units.

The specific requirements for entrance to Teachers College are as follows:

English	3 units
Mathematics (Algebra 1, Plane Geometry 1)	2 units
Foreign Language	2 units
History	1 unit
Science	1 unit

The mathematics requirement is 1½ units of Algebra for Vocational and Industrial Art Courses.

Foreign language is not required for Commercial, Vocational Education, or Industrial Arts Education Courses.

Deficiencies in foreign language must be removed before the student is eligible to junior rank.

COURSES OF STUDY AND DEGREES

Teachers College trains teachers for all departments of the public school system. Those who finish four years, 128 semester hours in training, receive the Bachelor of Education degree. Graduate courses are open to any student who holds a Bachelor's degree from an accredited institution. The Master's degree is granted upon the completion of thirty-two hours of graduate work.

STUDENT TEACHING

The student teaching in all courses is done in the public schools in regular school rooms under the supervision of training teachers. Each student must teach for a semester under regular assignment and is held responsible for results of pupils for the semester. Under such supervision the student teacher really becomes an apprentice in teaching.

OUTLINES OF COURSES

Teachers College is accredited by the State Department of Education for training teachers in the high school, kindergarten, and elementary fields of education and in the special fields of music, art, physical education, industrial arts, vocational education, commerce, and home economics.

For all degrees in Teachers College except the course for music supervisors, the following subjects are required:

BASIC REQUIREMENTS FOR B. E. DEGREE

	Credits
English	12
Science, (Biology, Botany, Physics, Chemistry or General Foods)	8
History and Social Science	12
Psychology, including General Psychology—3 hours and Educational Psychology—3 hours	10
Health and Physical Education, (including R. O. T. C. requirements for men)	10
Education including Methods, Principles of Education and Student Teaching	30

Students will select the particular fields of specialization for their electives sufficient to make a total of 128 hours.

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KINDERGARTEN-PRIMARY COURSE

Those training for Kindergarten-Primary teaching must pass a music test during the first year of the course.

The following subjects must be included either in Basic Requirements or electives:

	Credits
Observation	2
Kindergarten Curriculum	3
History and Philosophy of Kindergarten	2
Play Materials	2
Songs and Games	2
Primary Methods	6
Correlated Education	6
Child Care	3
Kindergarten-Primary Music	6
Kindergarten-Primary Art	6
Story Telling	6
Literature for Primary Grades	3
Speech	3
Guidance	2

COURSE FOR ELEMENTARY TEACHERS

In this field of training, students will select the particular grades for which they wish to train, and specialize in these grades. The course must include the following:

	Credits
Guidance	4
Observation	4
Story Telling	3
Literature for the Grades	3
Correlated Education	6
Art	6
Public School Music, (Sight Singing and Methods)	6
Methods	8
Geography	6
Visual Education	4
Speech	3

ART COURSE

In addition to the Basic Requirements as outlined, students will elect at least 42 credit hours in Art.

COMMERCIAL COURSE

In addition to the Basic Requirements, electives in the commercial subjects may be distributed in preparation for teaching in the commercial departments of high school and college.

HOME ECONOMICS

The electives in this field for those who desire to teach may be taken so as to prepare for regular teaching positions in the schools.

INDUSTRIAL ARTS COURSES

In addition to the Basic Requirements, industrial arts students will include the following subjects in their curriculum:

	Credits
Black Board Drawing	2
Design	4
Industrial Drawing	6
Mathematics	8
Major in Industrial Arts	24
Observation and Student Teaching	12
Ed. and Voc. Guidance	2
Organization and Administration Vocational Education	2
History and Philosophy Vocational Education	2
Principles of Education	3
Methods in Teaching Industrial Arts Subjects	3

Women students may select their majors from the industrial arts division of Home Economics.

VOCATIONAL EDUCATION COURSES

These courses lead to the B. E. degree and a Smith-Hughes certificate. In addition to Basic Requirements as outlined, the following must be included:

	Credits
Industrial Relations	2
Industrial Drawing	6
Occupational Analysis	2
Organization Industrial Materials	4
Free Hand Drawing	2
Mathematics	8
Shop Management	2
Trade Major	24
Observation and Student Teaching	2
Educational and Vocational Guidance	2
Philosophy of General Continuation School	2
Organization and Administration of Vocational Education	2
History and Philosophy of Vocational Education	2
Principles of Education	3

Women may elect, in addition to their trade major, 22 hours from the department of Home Economics instead of the subjects listed above.

HEALTH AND PHYSICAL EDUCATION

In addition to the Basic Requirements, 42 hours of health and physical education must be included in this field of training. This permits the student to specialize in health, physical education and coaching.

COURSES FOR HIGH SCHOOL TEACHERS

In addition to the Basic Requirements, those preparing to teach in high school will elect a major of 24 hours and a minor of 18 hours.

In determining majors and minors, subjects may be grouped as follows: English, including public speaking, literature; history, including political science; social science, including economics, sociology, ethics, philosophy, logic; biological science, including physiology, botany, zoology, agriculture; physical science, including chemistry, physics; earth science, including geology, physiography; home economics, including all related subjects; commercial subjects, including all related subjects; mathematics; French; German; Spanish; Latin; Greek; physical education; manual arts, including all related subjects; music. Prerequisite in any group are the following high school units. English (including public speaking), 3; history (including political science), 2; home economics, 1; manual training (including vocational industrial work), 1; commercial subjects, 2; mathematics, 2; French, 2; German, 2; Greek, 2; Spanish, 2; Latin, 4; Social sciences (including economics, sociology, community civics, occupations), 1; biological science (including physiology, botany, zoology, agriculture and general science), 1; physical science (including chemistry, physics and general science), 2; earth science (including geology, physiography and general science), 1. Five semester hours of collegiate credit in any subject may be offered in lieu of each unit of the high school prerequisite in that subject.

Those who plan to teach in Akron high schools should take five years of work in college. Two degrees may be secured in the five years.

All students who plan to teach in the Akron Schools should plan with the Dean such courses as will satisfy the training requirements of the public school officials.

Graduates of liberal arts colleges may secure the B. E. degree by taking 32 hours of additional work in Teachers College.

MINOR IN HEALTH AND PHYSICAL EDUCATION

	Credits
School Health	4
Personal Hygiene	2
Physical Education 1, 2, 3, 4	4
Applied Anatomy	4
Applied Physiology	4
Corrective Gymnastics	2
Organization and Administration of Physical Education	4
Principles of Coaching	6

MINOR IN ART

	Credits
Elements of Art 1	2
Design 2	2
Free Sketch 19	2
Still Life 10	2
Costume Design 6	2
Pose 11	2
Home Planning 22	2
Technique of Mediums 8	2
Commercial Art 14	2
History of Art 20	2
History of Art 21	2
Methods of Teaching Art 24	2

MINOR IN MUSIC

	Credits
Sight Singing, Ear Training and Elementary Theory	6
History and Appreciation	4
Special Methods and Practice Teaching	8
Ensemble (Glee Club, Orchestra, Chorus and Band) and Applied Music....	4
Conducting	2

SPECIALIZED COURSES FOR PLATOON AND DEPARTMENTAL SCHOOLS

Students will be permitted to specialize in any field of platoon or departmental work. The student will major in the particular activity or department selected and besides satisfying the basic requirements for the degree will include the following subjects:

	Credits
Correlated Education	6
Visual Education	4
Methods in the particular field	2
Guidance	4
Speech	3
Specialized work in the particular field	6

COURSE FOR MUSIC SUPERVISORS AND SPECIAL TEACHERS

The letter "A" preceding a course number indicates that the course is listed in the Liberal Arts College and described in the bulletin of that college.

FIRST YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Rhetoric A1	3	Rhetoric A2	3
Physical Education	1	Physical Education	1
Elementary Theory and Harmony.....	2	Harmony	2
Sight Singing and Ear Training 30....	2	Sight Singing and Ear Training 31.....	2
Voice	1	Piano	2
Piano	2	Voice	1
Orchestra	1	Glee Club	1
History and Appreciation of Music 35....	3	Orchestra	1
Glee Club	1	History and Appreciation of Music 36....	3
	<u>16</u>		<u>16</u>

SECOND YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Physics A3	4	General Psychology	3
English A	3	Personal Hygiene 4	2
Physical Education	1	Physical Education	1
Sight Singing and Ear Training 32.....	2	Sight Singing and Ear Training 33.....	2
Harmony	2	Harmony	2
Piano	2	Piano	2
Voice	1	Voice	1
Public School Music Methods 11	2	Public School Music Methods 12.....	2
	<u>17</u>		<u>15</u>

THIRD YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Speech A	3	Dramatic Study Club	1
Counterpoint	2	Counterpoint	2
European History A7	3	European History A8	3
Piano	2	Piano	2
Voice	1	Voice	1
String Ensemble	1	String Ensemble	1
Organization of Public School Music 37	2	Form and Analysis 10	3
Educational Psychology 3	3	Elective	2
	<u>17</u>		<u>15</u>

FOURTH YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Principles of Education 9	3	Student Training 24	12
Brass and Wood Instruments 11.....	1	Problems of Student Teaching 26.....	4
Observation and Participation 25.....	2		<u>16</u>
Conducting 12	2		
Orchestration 9	3		
Music Composition	3		
Elective	2		
	<u>16</u>		

Students completing this course will receive the B. E. degree. Students may elect music as a minor along with other majors for junior and senior high school teaching.

Prerequisite for entrance to four year course is fourth grade examination in Piano, Violin or any instrument, which will be given during Freshman Week of the first term.

All Voice students will be required to attend and participate in Glee Club practice and activities. All students of Violin and other string instruments will be required to attend and participate in Orchestra rehearsals and activities. The same applies to the Band for those students who play Brass and Wood Wind instruments.

Instead of piano and voice as outlined in the course, students may elect a major and minor. The election may be made from a complete list of musical instruments.

STATE REQUIREMENTS

There are minimum standards as laid down by the State Department of Education which all students must meet in order to receive the State certificate. These minimum requirements must be met in all instances. Students will do well to study these requirements so that no difficulty will arise for any student when application is made for the State Certificate.

TABLE OF PROFESSIONAL CREDITS

Type of Certificate Required Credits (Semester hours)			SUBJECTS
SPECIAL	ELEMENTARY	HIGH SCHOOL	
			NOTE: At the left, in the respective columns are entered the required number of credits in the several professional subjects.
3	3	3	Educational Psychology
3	3	3	Principles of Teaching (or Education)
2	2	2	Administration, Organization, or Management
2 or 4	6	2	Methods of Teaching as specified below:
2 or 3	2 or 3	2 or 3	Observation and Participation
5 or 4	5 or 4	5 or 4	Student Teaching
	3		Public School Music
	2		Physical Education
	2		Art
(5 or 7)	(3)	(7)	Elective Subjects: Limited to the total number of hours indicated in the parentheses, and individually to the number of hours at the left of the several subjects:
3	3	3	Introduction to Teaching
3	3	3	General Psychology
3	3	3	History of Education
3	3	3	Tests and Measurements
24	31	24	Total Required and Offered Note:--Additional credits to meet the total requirements for any type may be presented in any of the subjects listed above as required, not including, for elementary, music, physical education, and art.

GRADUATE COURSES

The graduate courses of Teachers College are open to any student who holds the Bachelor's degree from an approved institution. The Master's degree is conferred when the student has received thirty-two hours of unduplicated graduate credit, and has met the following requirements:

- (a) All work for the degree must be done under the direction of Teachers College.
- (b) The major in the graduate course must be logically related to the preliminary training, and may come from the departments of Education or Psychology.
- (c) As a preliminary, six hours in psychology and six hours in education, including student teaching or its equivalent, shall be required.
- (d) Each candidate for the degree must present a major sequence of not less than 18 semester hours' credit in some one department.
- (e) The candidate must present one minor sequence of not less than 10 semester hours' credit. This sequence must have the approval of the head of the department in which the major sequence is taken, and must be taken in the department of Education, provided the major sequence has not been taken in that division and provided further the candidate has not presented the equivalent of 10 semester hours in Education in undergraduate courses.
- (f) At least three-fourths of the work credited for the Master's degree must be of A or B grade.
- (g) All candidates for the Master's degree shall offer 24 hours of strictly graduate credit and meet all other catalog requirements.
- (h) Undergraduate courses offered for graduate credit shall be subject to the following restrictions:
They shall be subject to the approval of the Major Professor and the Dean of Teachers College.

All such approved undergraduate courses for graduate credit shall count for one-half of the number of hours regularly accredited to undergraduate courses.

No readings or reports shall be required from graduate students in undergraduate courses that are not required of others.

Not more than eight hours of graduate credit for such undergraduate work may be offered for a Master's degree.

(i) The candidate shall be required to present a satisfactory thesis on some subject in the general field of his major sequence. He will be required to take the seminar course extending throughout the year and present such parts of his thesis as may be decided upon by his major professor. The thesis and seminar shall be considered as a part of the 18 hours required for major.

(j) The candidate shall be required to take final oral and written examinations in his major and minor sequences.

The name of the degree granted shall be determined by the name of the Bachelor's degree submitted for entrance to the graduate courses.

Candidates for the Master's degree are expected to declare their candidacy at the beginning of the year's work. Recommendation for acceptance of candidates must come from the Department in which the major sequence is taken, at least one semester before the degree is granted. A diploma fee of \$10 is charged for the Master's degree.

ACADEMIC DEPARTMENTS

Students in Teachers College are assigned to classes in the Liberal Arts College for academic work in the various departments such as Mathematics, History, Political Science, Sociology, English, Speech, Foreign Language and the Sciences. Arrangements for assigning students desiring commercial subjects to the College of Engineering and Commerce have also been made. This affiliation makes it possible for students in Teachers College to prepare for teaching any academic or commercial subject and, at the same time, satisfy the State requirements for professional training. For description of academic or commercial subjects, see General Catalog or bulletins of respective colleges. Such subjects required in Teachers College courses are numbered as in the General Catalog of the University. Electives may be made from any of these departments.

DEPARTMENTS OF INSTRUCTION

The general system of numbering and arrangement is according to the following groups:

Art	1-25
Education	1-20
Educational Psychology	3-14
Elementary Training	1-42
Home Economics	1-31
Industrial Arts	1-22
Kindergarten-Primary Training	1-24
Music	1-38
Physical Education	1-32
Psychology	1-12
Vocational Education	3-31

GRADUATE COURSES

Education	101-116
Educational Psychology	103-120
Psychology	102-113
Research	101-105

The letters "de" following a course number indicate that the course is given in both the day and evening sessions.

SUBJECTS OF INSTRUCTION

ART

ASSISTANT PROFESSOR BARNHARDT, MR. POND, MISS CABLE, MISS FERRIS

FRESHMAN AND SOPHOMORE COURSES

- 1de. STRUCTURAL ART. Either semester. Two credits.
A study of the basic principles of design, color and composition.
- 2de. DESIGN. Second semester. Two credits.
A study of the adaptation of units of design to definite spaces, and the consideration of the limitations of various mediums. Prerequisite, 1.
- 3de. CRAFTS. Second semester. Two credits.
Design applied to textiles by various processes. Prerequisite, 2.
6. COSTUME DESIGN. First semester. Two credits.
A study of the history of costume from the standpoint of line and color, and their relation and adaptation to modern dress. Prerequisite, 1.
7. STAGE COSTUME. First semester. Two credits.
A study of history of costume and its environment. Psychology of color. Color relation. Composition. Adaptation of period costume to definite set characters.
- 8de. TECHNIQUE OF VARIOUS MEDIUMS. Second semester. Two credits.
A series of progressive lessons using pencil, pen and ink, brush and ink, crayon, water color and oil. Prerequisite, 1.
- 9-10de. STILL LIFE. First and second semesters. Two credits each semester.
A course in free-hand drawing from common objects and natural forms using different mediums. A thorough training in perspective. Prerequisite, 8.

14-15de. **COMMERCIAL ART.** First and second semesters. Two credits each semester.

A course embracing the principles of advertising in connection with page arrangement, magazine, newspaper and poster layout. Standard forms of lettering and adaptation of material to reproducing processes.

16de. **KINDERGARTEN AND PRIMARY ART.** First semester. Two credits. Blackboard drawing. Free sketch. Paper cutting. Elementary design and color. Prerequisite, 1.

18A. **CLAY MODELING.** First semester. Two credits. Modeled and incised tiles and panels. Medallions. Small figures, Heads. Prerequisite, 2.

18B. **CLAY MODELING.** Second semester. Two credits. Figures from the model. Prerequisite, 18 A.

19de. **FREE SKETCH.** Second semester. Two credits. Line drawing of common objects. The application of simple perspective rules. Building up of figures.

JUNIOR AND SENIOR COURSES

4de. **CRAFTS.** First semester. Two credits. Design applied to leather, baskets, hooked rugs, wood. Prerequisite, 2 and 3.

5. **CRAFTS.** Second semester. Two credits. Etching and Block Printing. Prerequisite, 4.

11. **POSE.** Second semester. Two credits. Drawing from the draped model, studying the anatomy and working for a likeness. Pictorial and decorative treatment of the human figure. Prerequisite, 10.

12-13. **ILLUSTRATION.** Both semesters. Two credits each semester. A study of principles underlying imaginative drawing, and modern processes of reproduction. Self expression through different mediums. Prerequisite, 11.

17de. **MARIONETTES.** Second semester. Two credits. Designing and making marionette figures. Appropriate backgrounds and stage properties. Mechanical devices used in operation. Prerequisite, 7.

20. **HISTORY OF ART.** First semester. Two credits. A comprehensive history of European painting, sculpture and architecture from the earliest time to the Italian Renaissance.

21de. **HISTORY OF ART.** Second semester. Two credits. The history of European and American painting, sculpture and architecture from the Renaissance to the present time.

22de. **HOME PLANNING.** First semester. Two credits. A study of types of houses. Making of floor plans and elevations of a definite house. Application of principles of design and color as related to home furnishings. History of furniture. Prerequisite, 2.

23. **HOME PLANNING.** Second semester. Two credits.
A study of textile, ceramics, metals from the standpoint of color and design. Arrangements of furnishings. Prerequisite, 22.
24. **METHODS IN TEACHING ART.** First semester. Two credits.
Methods of presentation of problems in primary, elementary and high school. Discussions on Art and general educational objectives and the newer tendencies in the teaching of Art. The co-operation of the museum with the Art department. Prerequisite, the completion of the required course for Art teachers.

EDUCATION

DEAN BANKES, PROFESSOR KUHNES, ASSISTANT PROFESSOR EVANS,
MR. SNYDER

FRESHMAN AND SOPHOMORE COURSES

3. **HISTORY OF EDUCATION IN THE UNITED STATES.** Either semester.
Three credits.
The origin and development of educational institutions within the United States, emphasizing the social, religious, economic and political factors involved. MR. SNYDER

JUNIOR AND SENIOR COURSES

- 6d. **EDUCATIONAL TESTS AND MEASUREMENTS FOR ELEMENTARY SCHOOLS.**
First semester. Two credits.
A course for the purpose of acquainting teachers with the uses of tests and testing, understanding the new type tests, the distribution of test scores and the interpretation of test results. ASSISTANT PROFESSOR EVANS
8. **TYPES OF THINKING.** Second semester. Two credits.
A discussion of the application of the different types of thinking to educational problems. PROFESSOR KUHNES
9. **PRINCIPLES OF ELEMENTARY EDUCATION.** Either semester. Three credits.
The investigations incident to the course are grouped as follows: the aims of public school education; favorable working conditions; general principles of learning; special types of learning; the technique of teaching. DEAN BANKES
13. **HIGH SCHOOL METHODS.** First semester. Two credits.
A detailed study of the directed learning of high school pupils. Application of principles to specific subject matter. Thesis: principles applied to the student's major. PROFESSOR KUHNES
14. **VISUAL EDUCATION.** Both semesters. Two credits each semester.
A course designed to assist teachers in the use of visual aids, such as, graphs, maps, globes, museums, excursions, still and motion pictures, stereographs, etc. Application will be made to various subjects of the curriculum. ASSISTANT PROFESSOR EVANS

17de. THE JUNIOR HIGH SCHOOL. First semester. Two credits.

The development of the junior high school idea; its special functions and administrative organization; the problems of counseling guidance, and student activities; curriculum development and reconstruction; problems of technique and the administration of instruction.

ASSISTANT PROFESSOR EVANS

18. ORGANIZATION AND ADMINISTRATION OF GUIDANCE IN SECONDARY SCHOOLS. First semester. Three credits.

A study of the need, purposes, and means of guidance. Special emphasis is given to the organization of a program of guidance in the high school.

ASSISTANT PROFESSOR EVANS

13de. EDUCATIONAL SOCIOLOGY. First semester. Three credits.

The data and principles derived from a study of social relationships are applied in educational problems.

MR. SNYDER

19. ELEMENTARY SCHOOL CURRICULUM. Second semester. Three credits. An investigation of the materials of instruction. Scientific studies are used in conjunction with philosophically determined objectives in determining what to teach.

ASSISTANT PROFESSOR EVANS

20. SECONDARY SCHOOL CURRICULUM. First semester. Three credits.

A study of the bases of determining what should be taught in high school. Scientific studies will be brought to bear upon the problems of curriculum-making.

ASSISTANT PROFESSOR EVANS

GRADUATE COURSES (OPEN TO SENIORS AND GRADUATE STUDENTS)

101. PRINCIPLES OF SECONDARY EDUCATION. Both semesters. Three credits each semester.

An application to the direction of learning of the secondary school pupil of the principles of learning, aims of instruction and the different recitation modes. Two hours of observation.

PROFESSOR KUHNES

103de. HISTORY OF THE PHILOSOPHY OF EDUCATION. Second semester. Two credits.

A study of the contributions of great thinkers, from Socrates to the present, to the development of an educational philosophy.

PROFESSOR KUHNES

104de. GREAT TEACHERS. First semester. Two credits.

The contribution to educational philosophy and mental hygiene of representative great teachers. Thesis: Some great educator not discussed in class.

PROFESSOR KUHNES

105de. COMPARATIVE EDUCATION. Second semester. Two credits.

The educational philosophy and organization of the United States, England, France, Germany, Italy, Australia, Canada, Danish countries, Russia, South America. Thesis: Educational philosophy and organization of some country compared with that of the United States.

PROFESSOR KUHNES

106. MODERN TENDENCIES IN EDUCATION. Second semester. Two credits.

A discussion of the outstanding tendencies in modern educational theory and practice.

PROFESSOR KUHNES

107. EDUCATIONAL TESTS AND MEASUREMENTS FOR SECONDARY SCHOOLS.
Second semester. Two credits.

The necessity of testing in high school, the improvement of examinations; a critical study of tests for various subjects; the interpretation of results and sufficient statistical computations for determining test reliability.

ASSISTANT PROFESSOR EVANS

108de. ELEMENTARY SCHOOL ADMINISTRATION. First semester. Two credits.

A course for the purpose of acquainting the student of Education with the origin, meaning and function, financial support, organization and management of the American elementary school.

ASSISTANT PROFESSOR EVANS

109de. SECONDARY SCHOOL ADMINISTRATION. Second semester. Two credits.

A course for the purpose of acquainting the student of Education with the origin, meaning and function, financial support, organization and management of the American secondary school.

ASSISTANT PROFESSOR EVANS

112. ANTHROPOLOGY OF THE SCHOOL CHILD. Second semester. Two credits.

An application of biological principles to the educational process.

PROFESSOR KUHNES

113. EDUCATIONAL PHILOSOPHY. First semester. Two credits.

The educational aims and ideals as determined by the educational process, the nature of mind and the ideals of the race.

PROFESSOR KUHNES

114. CURRENT EDUCATIONAL THOUGHT. First semester. Two credits.
A critical analysis of the new books of the year. Each student presents a book.

PROFESSOR KUHNES

115. SUPERVISION OF STUDENT TEACHING. Second semester. Two credits.
A study of current practices and specific methods of supervision and direction of student teaching.

DEAN BANKES

116. EDUCATIONAL SUPERVISION. Both semesters. Two credits each semester.

A study and application of principles and objective techniques of supervision. Designed for experienced teachers, principals, and supervisors.

ASSISTANT PROFESSOR EVANS

EDUCATIONAL PSYCHOLOGY

PROFESSOR HAYES, ASSOCIATE PROFESSOR WOOD, MR. SNYDER

FRESHMAN AND SOPHOMORE COURSES

3de. EDUCATIONAL PSYCHOLOGY. Both semesters. Three credits each semester.

For students who wish to meet state certification requirements and who have had no training in educational psychology. Attention particularly to the native equipment of children and to the learning process. Prerequisite, Psychology I.

ASSOCIATE PROFESSOR WOOD

JUNIOR AND SENIOR COURSES

4de. CHILD PSYCHOLOGY. First semester. Two credits.
Pre-school child and early elementary grades; original tendencies; play attitudes and educational application; application of instinctive urges in training and control. Prerequisite, Psychology 1. PROFESSOR HAYES

5de. PSYCHOLOGY OF THE EXCEPTIONAL CHILD. First semester. Two credits.

Case studies of deviates; methods of treatment; methods of diagnosis; neural instability, precocity, backwardness and feeble-mindedness. Prerequisite, Psychology 1. PROFESSOR HAYES

12de. PSYCHOLOGY OF ADOLESCENCE. Second semester. Two credits.
Problems of pre-adolescence and the adolescence; physical and psychic changes, problems of differentiation in junior and senior high school age. Social and moral changes. Prerequisites, Psychology 1, Educational Psychology 3. ASSOCIATE PROFESSOR WOOD

GRADUATE COURSES (OPEN TO SENIORS AND GRADUATE STUDENTS)

104de. MENTAL HYGIENE. Second semester. Two credits.
Problems of mental health, conditioning of reflexes and their results, mental attitudes, causes and results, inhibitions and orderly associations. Prerequisite, Psychology 1. PROFESSOR HAYES

109de. PSYCHOLOGY OF THE HIGH SCHOOL SUBJECTS. Second semester. Two credits.

Problems of growth and reaction of the high school pupil. The content and critical evaluation of the subjects usually found in the high school curriculum. ASSOCIATE PROFESSOR WOOD

116de. THE PSYCHOLOGY OF CHARACTER TRAITS. First semester. Two credits.

An attempt is made to attack the problems of character training systematically and without the usual disastrous mixing of sentimentality and artificiality. Ideals and situations, trait actions and specific individual development are the subjects which receive particular attention.

ASSOCIATE PROFESSOR WOOD

ELEMENTARY TRAINING

DEAN BANKES, PROFESSOR HAYWORTH, ASSISTANT PROFESSOR HOOVER

FRESHMAN AND SOPHOMORE COURSES

1. OBSERVATION. First semester. Two credits.
Orientation; observation in all grades; group conferences; class discussions; reports; reading assignments based on previous observations. Two hours of observation, one hour of recitation per week. MISS HOOVER

15de. LITERATURE FOR INTERMEDIATE GRADES. Second semester. Three credits.

Appreciation; the appreciation lesson; method; teacher's equipment; reading lists; reports; book reviews; devices; creative returns; value of literature in the grades; boys' and girls' interest in reading; oral reading; silent reading; objectives; motivation; extensive vs. intensive reading; reading vs. literature; materials; value of literature; work type; leisure time type; economy of silent reading in education. MISS HOOVER

JUNIOR AND SENIOR COURSES

5. **TEACHING ARITHMETIC.** First semester. Two credits.
Objectives; fundamental principles; habits and skills; motivation; lesson types; subject matter; methods; diagnostic and achievement tests; remedial work; library readings; reports. Methods, two days; subject matter, two days per week. MISS HOOVER

6. **TEACHING LANGUAGE.** First semester. Two credits.
Materials; aims; methods; sentence structure; oral composition; written composition; vocabulary building; grammar; memorization; spelling; writing; library readings; reports. Methods, two days; subject matter, two days per week. MISS HOOVER

7. **TEACHING GEOGRAPHY.** Second semester. Two credits.
Units of geographical material; controls and responses; visualization; projects; problem method; map study; special reports; library readings; subject matter; types of lessons; practical demonstrations. Methods, two days; subject matter, two days per week. MISS HOOVER

8. **TEACHING HISTORY.** Second semester. Two credits.
Historical materials; aims; values; motivation; visualization; appreciation; lesson types; biography; methods; reading lists by grades; reports. Methods, two days; subject matter, two days per week. MISS HOOVER

9d. **PRINCIPLES OF GEOGRAPHY.** Both semesters. Three credits each semester.

A study of natural environment in relation to life.

10d. **GEOGRAPHY OF AMERICA.** First semester. Three credits.
Natural resources and climatic features as they influence life forms, industries, cities and chief historic events in North and South America.

11. **GEOGRAPHY OF EURASIA.** Second semester. Three credits.
A study of the different nations with special emphasis on the influence of geographic conditions affecting the life and industries of the people.

13. **STORY TELLING.** First semester. Three credits.
Theory of story telling; preparation and presentation of the story; standards; characteristics of a good story; dramatization; types; story interests; adaptation; value of story telling; analysis; story teller's attributes; lists of stories; art of story telling. MISS HOOVER

24. **STUDENT TEACHING.** Either semester. Twelve credits.
Student teaching is done in the public schools of Akron in the various grade and high schools. A full semester is given to this subject. Certification of credits to the Registrar states the grade and subjects taught.

25. **OBSERVATION AND PARTICIPATION.** Either semester. Two credits.
All students are required to take this course the semester next preceding Student Teaching. Its purpose is to prepare students for entering upon their duties as cadet teachers. Observation of teachers at work and participation in school room practices make up part of the actual work of the semester. DEAN BANKES

26. PROBLEMS OF STUDENT TEACHING. Either semester. Four credits. A conference course on classroom management and methods in the subjects taught in student teaching. Texts and references on management and methods will be studied. Required of all students doing student teaching. DEAN BANKES

27. CORRELATED EDUCATION. First and second semesters. Three credits each semester.

This course emphasizes unit study as a means of socializing, integrating, and unifying the various activities of the individual class rooms. It involves appreciation, projects, pageants, programs, and various other activities; how various activities can be correlated to connect home, school, and community life. MISS HOOVER

42de. SPEECH CORRECTION. Second semester. Three credits.

A study of the treatment of such speech defects as stuttering, lisping, baby talk, foreign accent, and dialect and such organic defects as cleft palate, parietic cases and malocclusion. PROFESSOR HAYWORTH

HOME ECONOMICS

PROFESSOR MAXWELL, MISS LATHROP, MISS COUNTS

13-14. GENERAL FOODS. Both semesters. Four credits each semester. The selection and preparation of foods; contribution of different foods to an adequate diet; individual needs for energy food; those for building and repairing of tissue and regulating body processes. Meals will be planned and served. Open to women not majoring in Home Economics. Fee \$4.00. Two hours of lectures and discussions, six hours of laboratory each week. MISS COUNTS

I-2. TEXTILES AND CLOTHING. Both semesters. Three credits each semester.

A study of standard textile fibers with emphasis on factors which influence style, beauty, uses and wearing quality of fabrics. Simple tests for judging materials. Fundamental processes in garment construction. Use and care of sewing machines and attachments. The use of commercial patterns. Construction work includes simple articles, undergarments and dresses made from cotton and linen materials. Students not majoring in Home Economics may take this course. MISS LATHROP

25de. CHILD CARE. Either semester. Three credits.

The principles relating to development of child through the prenatal, infancy, and pre-school periods. Physical, mental, social, and moral development is traced through each period. Nutritional needs of various ages is given particular attention. Factors contributing to child welfare in its various phases are discussed. MISS MAXWELL

31. HOME ECONOMICS EDUCATION. Either semester. Four credits.

Problems of teaching technique and class room management. General psychological principles as applied to home economics. Texts and references, illustrative material, measuring, judging and improving instruction, methods of cooperation between school and community, grade placement of courses, organization of material for elementary, secondary and vocational levels, researches and present trends. MISS MAXWELL

INDUSTRIAL ARTS EDUCATION

1-2. WOODWORKING. Both semesters. Three credits each semester. This is a course in tool processes in which bench work is stressed. Projects for junior and senior high schools are developed. Nine hours per week.

9-10. METAL WORKING. Both semesters. Three credits each semester. Working knowledge of fundamental tool processes. Sheet metal projects are developed. Nine hours per week.

17-18. PRINTING. Both semesters. Three credits each semester. A course in printing given in the school print shop. Nine hours per week.

21. ELECTRICAL SHOP. First semester. Four credits. A course in electrical shop work given in an electrical shop of the public schools. Twelve hours per week.

22. FIELD PROJECT. First semester. Four credits. Each student in his senior year will work out a project suitable to his major subject in shop teaching.

KINDERGARTEN-PRIMARY TRAINING

MISS KEMLER

FRESHMAN AND SOPHOMORE COURSES

5-6. KINDERGARTEN MUSIC. Both semesters. One credit each semester. Described under Music.

7. PIANO. Both semesters. Two credits each semester. This course consists of private lessons in piano.

PROFESSOR DE LEONE, MISS RIDER

11de. STORY TELLING. First semester. Three credits. Values of story-telling; story interests of young children; classification; selection; preparation; telling stories; returns from children.

MISS KEMLER

12. STORY TELLING. Second semester. Three credits. Story groups; returns from children; story program for the year for kindergarten, first, second and third grades. Prerequisite, 11.

MISS KEMLER

16. KINDERGARTEN-PRIMARY ART. First semester. Two credits. Described under Art.

JUNIOR AND SENIOR COURSES

1. PLAY MATERIALS. First semester. Two credits. Materials, tools, purposes, and techniques in the use of clay, blocks, sand, paper, wood, roving, cloth, odds and ends; standards for judging work; desirable equipment for indoor and outdoor play.

MISS KEMLER

2. SONGS AND GAMES. Second semester. Two credits. Rhythmic responses of young children from spontaneous rhythmic movements to organized rhythmic plays and games; rote singing; singing games; finger plays; kindergarten orchestra; appreciation; materials.

MISS KEMLER

3. HISTORY AND PHILOSOPHY OF KINDERGARTEN. First semester. Two credits.

Educational principles advanced by Pestalozzi, Rousseau, Froebel and Montessori; basic principles underlying kindergarten; history of kindergarten movement in America; principles and practice of modern kindergarten; importance of Kindergarten in school program; unification.

MISS KEMLER

4de. PRIMARY METHODS. First semester. Three credits.

The kindergarten-primary child; the primary classroom; equipment; the daily program; group activities; seat work; testing and classification; the teaching of language. Two hours of observation.

MISS KEMLER

5de. PRIMARY METHODS. Second semester. Three credits.

The teaching of arithmetic; reading; phonics; spelling; handwriting. Two hours of observation.

MISS KEMLER

14. LITERATURE FOR THE PRIMARY GRADES. First semester. Three credits.

Children's interests; presentation of literature to young children; Mother Goose; poetry and rhymes; stories; creative returns; books suitable for kindergarten, first, second and third grades.

MISS KEMLER

17. KINDERGARTEN CURRICULUM. Second semester. Two credits.

Underlying principles of early childhood education; kindergarten equipment; curriculum content; free period; rhythmic responses; educative material; curriculum construction based on children's needs and interests. Two hours of observation in kindergarten each week.

MISS KEMLER

9. STUDENT TEACHING. Second semester. Six credits.

Students will teach in the Akron Kindergartens under normal conditions as they exist in the city.

23. STUDENT TEACHING. Second semester. Six credits.

Students preparing to do Kindergarten-Primary work will teach in Akron primary schools under conditions as they actually exist in the school room.

MUSIC

PROFESSOR DELEONE, MR. STRASSNER, MR. CHAPMAN, MR. SADLIER,
MISS RIDER, MR. WAY, MR. ENDE

The work in music is open to election by members of all college classes. It includes a recitation course in the study of music, meeting twice a week through the year, and participation in Glee Club, Band, or Orchestra, two hours each week.

All students desiring to participate in the class room work in music, or in Orchestra, Band or Glee Club, must arrange for it on registration days as part of their regular assignment of work for the semester. Students who desire to take no studies except music must fulfill the regular requirements for college entrance.

The University offers sixteen scholarships in piano, voice, organ, and violin, for students who are taking the Kindergarten and Music Supervisors course, and to other students in music who are especially qualified and gifted. The scholarships are competitive and the selection is made by the Music Faculty. This procedure offers a splendid opportunity for students to further their musical education.

Opportunity is also offered for private instruction in piano under Professor De Leone, in organ under Mr. Ende, in violin under Mr. Chapman, and in voice under Mr. Strassner. For information concerning fees consult Professor DeLeone, director of Music.

THE STUDY OF MUSIC. Both semesters. Two credits each semester. This course is carried on as classroom work and is chosen from the following subjects: rudiments, theory of music and elementary harmony, thorough bass, ear training, first year history of music, biographical history of music, appreciation, study of operas, etc. Students are not allowed to enter the course in the middle of the year.

MEN'S GLEE CLUB. Both semesters. One credit each semester.

WOMEN'S GLEE CLUB. Both semesters. One credit each semester.

ORCHESTRA. Both semesters. One credit each semester.

BAND. Both semesters. One credit each semester for students not in R. O. T. C.

THEORY COURSE

Students must take the Theory course in conjunction with Piano, Voice, Organ, or Violin in order to receive credit for the work.

FIRST YEAR

1-2de. **ELEMENTARY THEORY AND HARMONY.** Both semesters. Two credits each semester.

This study is carried on as classroom work and includes the rudiments of music in detail, Intervals, Triads, Chords of the Seventh, and Thorough Bass. Written and oral exercises on all subjects.

SECOND YEAR

3-4. **THE CHORDS OF THE NINTH AND DIMINISHED SEVENTHS.** Both semesters. Two credits each semester.

The harmonization of major, minor and chromatic scales. Modulation and Transposition. Harmonization of given Melodies. Harmonization of given Bases. Suspensions, Retardations, Pedal Point, the Passing Note and the accompaniment. Prerequisite, first year's work. Text—Camillo De Nardis.

THIRD YEAR

5-6. **COUNTERPOINT.** Both semesters. Two credits each semester. Simple Counterpoint—rules and general instructions to be applied to all the Species of Counterpoint. Two Part Counterpoint through the five species. Three Part Counterpoint through the five species and variations. Four Part Counterpoint through the five species and variations. Imitation through all forms. Double, triple and quadruple Counterpoint. Fugue. Prerequisite, complete Harmony course.

8. **MUSIC COMPOSITION.** Second semester. Two credits. Original creative work based on the Chorale, Song Writing, Dance Forms, etc. Prerequisite, Counterpoint.

FOURTH YEAR

9. ORCHESTRATION. First semester. Three credits.

The study of orchestral instruments; the string quartet—Brass—Wood Wind—Percussion; Score reading—Practical work in orchestration. Prerequisite, Second year harmony.

10. FORM AND ANALYSIS. First semester. Three credits.

Analysis of the smaller and larger forms, the motive, section, phrase, half period, period and double period. Song forms, the Sonata, etc. Choice of Classic literature—Mendelssohn—songs without words. Bach—Fugues. Sonatas—Mozart—Beethoven—Works of Chopin, etc. Prerequisite, Second year harmony.

11. BRASS AND WOOD WIND INSTRUMENTS (BAND). First semester. One credit.

Practical knowledge of same. Position—Tuning—Score Reading—interpretation—developing of ability to encourage and develop others.

12. CONDUCTING. Second semester. Two credits.

Practical work before Glee Club, Orchestra, Band in the art of conducting. Special emphasis will be placed also on the methods of organization and discipline.

PUBLIC SCHOOL MUSIC

MR. ENDE, MISS RIDER

5-6. KINDERGARTEN AND PRIMARY MUSIC. Both semesters. One credit each semester.

First semester: Kindergarten and First Grade; rhythm; song material; teaching of rote songs; care of the voice; treating monotones. Second semester: Second and Third Grades; toy symphony orchestra; art songs; observation songs; ear work; method of teaching sight-reading. Prerequisite, at least one semester of Sight Singing and Ear Training.

9-10. PUBLIC SCHOOL MUSIC. Both semesters. One credit each semester.

First semester: Grades one to four; teaching of rote songs; correct use of the voice; material for oral tonal dictation; music reading; key signatures; studies in rhythm; how to teach sharp chromatics; two-part singing. Second semester: Grades five to eight; triads; teaching of the minor scales; how to teach flat chromatics; three-part singing. Prerequisites, Sight Singing and Ear Training 30-31.

11-12de. PUBLIC SCHOOL MUSIC METHODS. Both semesters. Two credits each semester.

First semester: Material of kindergarten and primary grades; methods of teaching; music appreciation. Second semester: Material of intermediate and upper grades; methods of teaching; music appreciation. Prerequisite, one year of Theory, and sight Singing and Ear Training. 30-31. (For those majoring in Public School Music.)

30-31. SIGHT SINGING AND EAR TRAINING. Both semesters. Two credits each semester.

First semester: Material for first three grades; drill on intervals; key signatures; drill on simple rhythms; major scale; normal minor scale; sharp chromatics; sequences. Second semester: Material for grades four to six; chords; dotted beat note; triplets; doublets; flat chromatics; harmonic minor; melodic minor; two-part songs; three-part songs.

32-33. SECOND YEAR SIGHT SINGING AND EAR TRAINING. Both semesters. Two credits each semester.

First semester: Unison songs; two-part songs; three-part songs; one and two voice dictations; tone relationships of major and minor modes; chromatic problems; song analysis. Second semester: Two-part songs; three-part songs; four-part songs; cadence forms; chord progressions; sequences; four-voice dictations. Prerequisite, one year of Theory and Sight Singing and Ear Training 30-31.

35-36de. HISTORY AND APPRECIATION OF MUSIC. Both semesters. Three credits each semester.

First semester: Music of primitive nations; music and instruments of the Bible; music of the early Christian Church; music and Renaissance; Polyphonic Age; opera and oratorio; periods of Bach, Handel, Haydn and Mozart. Second semester: Advent of Beethoven; rise of Virtuosity and Romanticism; Wagner and the new operatic tendencies; American musical development and modern tendencies.

37. ORGANIZATION IN PUBLIC SCHOOL MUSIC. First semester. Two credits.

A study of the relationship obtaining among principals, teachers and supervisors through which good results in any special field may be secured. The elementary school curriculum; outlining work for teachers; grade meetings; visiting work; checking and reporting results. Voice teaching and classification; organization of chorus and orchestra; material for cantatas and operettas; arranging music schedules for high school.

PIANO

PROFESSOR DE LEONE

FIRST YEAR

1-2. PIANO. Both semesters. Two credits each semester.

Major and Minor Scales—Arpeggios—Broken Chords with Rhythm and in different forms; The Little Pischna—Hanon; Loeschorn Op. 66; Czerny Op. 299, Selected; Heller 50 Selected Studies; Bach-Reinecke 12 little preludes; Clementi and Kuhlau Sonatinas Selected; Selected Compositions from the Classics and contemporary masters. Two half hour lessons weekly throughout year.

SECOND YEAR

3-4. PIANO. Both semesters. Two credits each semester. Major, Minor and Chromatic Scales, Arpeggios, Broken Chords continued; Pischna; Loeschorn Octave Studies; Czerny Op. 740 Selected; Bach Two and Three Part Inventions; Easier Sonatas of Haydn—Mozart—Beethoven; Compositions selected from Chopin Valses and Mazurkas; Mendelssohn's Songs Without Words; Grieg and MacDowell Op. 390. Two half hour lessons weekly throughout the year.

THIRD YEAR

5-6. PIANO. Both semesters. Two credits each semester. Scales, Major and Minor in Double 3rds and 6ths; Advanced forms of Arpeggios and Broken Chords, also special exercises; Kullak Octave Studies; Cramer 50 Selected Studies; Bach Selected from French and English Suites; Sonatas—Beethoven and others; Chopin Selected from Nocturnes—Impromptus—Preludes—Repertoires. Two half hour lessons weekly through the year.

FOURTH YEAR

7-8. PIANO. Both semesters. Two credits each semester. Special work in Advanced Technique; Clementi—Gradus Ad Parnassum; Moscheles Op. 70; Bach—Preludes—Fugues—W-T-C—Selected; Chopin Etudes Op. 10 and 25; Schumann—Etudes Symphoniques; Repertoire selected from Lizst, Rubenstein, MacDowell and Moderns.

Requirement for graduation—public recital of a program from memory or a Concerto with 2nd piano or orchestral accompaniment.

VIOLIN

MR. CHAPMAN

FIRST YEAR

1-2. VIOLIN. Both semesters. Two credits each semester. Gruenberg Scales and Chords, Book II; Mazas' Melodious and Progressive Studies, Op. 36, Books I and II; supplemented with selected solos, duets and parallel studies.

SECOND YEAR

3-4. VIOLIN. Both semesters. Two credits each semester. Scales and Chords, Book II—Gruenberg; 24 Studies Op. 80, Books I and II—Hans Sitt; Kreutzer 42 Studies begun; supplemented with solos, duets and parallel studies.

THIRD YEAR

5-6. VIOLIN. Both semesters. Two credits each semester. Scales and Chords, Book II; Kreutzer 42 Studies continued; Fiorillo 36 studies begun; DeBeriot Concertos 7 and 9.

FOURTH YEAR

7-8. VIOLIN. Both semesters. Two credits each semester. Fiorillo continued; Rode 24 Studies; Mendelssohn Concerto; Introduction and Capriccio—Saint-Saens; Sixth Sonata E mj. Bach.

VOICE

MR. STRASSNER

The aim of the instruction in Voice is to secure a free, natural tone throughout the entire register. Good tone depends upon a body and vocal apparatus, poised and operating so naturally that there is no ruinous interference from the tightening of any part of the vocal organs from the larynx upward, nor any strain caused by unnatural breathing.

Correct use of the breath intonation, attack legato, accent, embellishments, phrasing and enunciation are taught in the technical drills.

It is the hope to prepare pupils for teaching, church choirs and the concert stage and through them advance the cause of artistic singing.

FIRST YEAR

1-2. VOICE. Both semesters. Two credits each semester. Principles in the proper production of tone for both speaking and singing. Reading and reciting of poetry for the development of imagination as the basis of expression. Selected vocalises involving the study of intervals, major and minor scales and arpeggios. Suitable songs and ballads for diction and interpretation. Two half hour lessons per week.

SECOND YEAR

3-4. VOICE. Both semesters. Two credits each semester. Continued drill on tone according to the needs of the individual student. More advanced vocalises such as Concone, Lamperti and others. Art songs by classic and modern composers. Must take part in student recitals and ensemble singing. Two half hour lessons per week.

THIRD YEAR

5-6. VOICE. Both semesters. Two credits each semester. Continued technical studies and embellishments. More emphasis on style and expression. More advanced vocalises by Bordogni, Concone, Sieber and others. More difficult songs by composers of the Classics. Recitals and ensemble singing. Two half hour lessons per week.

FOURTH YEAR

7-8. VOICE. Both semesters. Two credits each semester. Repertoire—Selected recitatives and arias from Oratorio and Grand Opera. Complete role in one or more oratorios. Classics of various nationalities sung in the original language. Ensemble singing. Public graduation recital from memory. Supervised teaching and pedagogy. Two half hour lessons per week.

PHYSICAL EDUCATION

PROFESSOR SEFTON, ASSISTANT PROFESSORS BLAIR AND SMITH, MISS DUNCKLEY,
MR. LIPPS

FRESHMAN AND SOPHOMORE COURSES

1-2. PHYSICAL EDUCATION. Both semesters. One credit each semester. This course deals with instruction and practice in physical education for the first four grades in the elementary school. Two hours per week. The practice consists of: outdoor work, hockey and soccer; indoor: beginners' gymnastic tactics, beginners' gymnastics, fundamental nomenclature for work; part of period devoted to gymnastics and seasonable indoor games for class of college freshmen; outdoor season in spring for spring work, namely, playground ball, track and volley ball. The first semester is prerequisite to the second.

MISS DUNCKLEY

3-4. PHYSICAL EDUCATION. Both semesters. One credit each semester. Practice is two hours per week, one credit. It includes outdoor work of hockey and soccer. Indoor: gymnastic tactics for last four grades, gymnastics for last four grades, application of nomenclature, part of period devoted to gymnastics, seasonable indoor games for class of college sophomores; outdoor season: more advanced work suitable for sophomores. Prerequisite, 2.

MISS DUNCKLEY

9-10. PLAY AND GAMES. Both semesters. One credit each semester. Theory of play and practice of games with emphasis on how to teach them. The first semester is devoted to games of low and middle organization; the second to games of higher organization and minor sports. For both men and women.

MISS DUNCKLEY

11. FOLK GAMES. First semester. Two credits.

One-hour lectures are given once each week on characteristics and customs of various countries and theories of rhythmical games. Emphasis is placed on singing games and games of dramatization of simple rhythmical games and action games. Four hours per week.

MISS DUNCKLEY

12. FOLK GAMES. Second semester. Two credits.

One-hour lectures are given once each week on theories of technique of more advanced dancing and dancing nomenclature. More advanced rhythmical work is given in practice, more stress placed on rhythm and execution of more complicated dances. Part of the practice time is devoted to action games. Four hours per week. Prerequisite, 11.

MISS DUNCKLEY

16-17. FIRST AID AND MASSAGE. Both semesters. One credit each semester. First semester. First Aid: bandaging, general injuries, fractures and dislocations, wounds, burns, scalds, sunstroke, frost bite, freezing, drowning, electric shock, poisoning and care for sick and injured; athletic conditioning, special injuries for each branch of athletics and treatment, hydrotheraphy, common ailments and supplies; adhesive tape and its use; practical work and the making of a first aid kit. Second semester. Massage: strokes, physiological objectives, joint movements, systems, deformities, when and when not to use; special and general massage; its value to physical directors in every day work.

ASSISTANT PROFESSOR SMITH

18. APPLIED ANATOMY. First semester. Four credits.

Methods of studying muscular action; important muscles of the upper limb, shoulder girdle, shoulder joint, elbow, forearm, wrist and hand, lower limb, hip joint, knee joint and foot; muscles of the trunk, spinal column, breathing and upright posture, and team work among muscles; gymnastic movements; sports, industrial occupations; use and abuse, effects and suggestion of muscular activities.

ASSISTANT PROFESSOR SMITH

28. HISTORY OF PHYSICAL EDUCATION. Second semester. Two credits. Types of physical education—Sparta, Athens, Roman era, Teutonic Invaders, Asceticism, Cathedral schools, Renaissance, Reformation; physical education leaders of Sweden, Denmark, Germany, England and the United States are discussed; systems abroad and at home, history, effects.

MR. LIPPS

25. **PLAYGROUND EDUCATION.** Both semesters. One credit each semester. Play in Education, its need, purpose and function. The social, educational and biological aspects of Play. Brief history of the Playground movement with a discussion of the ways and means of securing playgrounds. Play and the social center. Administration of Playgrounds. Prerequisite, 11 and 12.

PROFESSOR SEFTON

26. **PHILOSOPHY OF PHYSICAL EDUCATION.** First semester. One credit. Study and discussion of the purpose, scope, and ideals of Physical Education. The main groups of activities usually included in a program of Physical Education with characterization and brief discussion of each.

PROFESSOR SEFTON

27. **PRINCIPLES OF PHYSICAL EDUCATION.** Second semester. Two credits. General Principles and methods of teaching applicable to all the activities and more detailed discussion of methods and technique of teaching gymnastics. Prerequisite, 26.

PROFESSOR SEFTON

JUNIOR AND SENIOR COURSES

5-6. **PHYSICAL EDUCATION, THEORY AND PRACTICE COMBINED.** Both semesters. One credit each semester.

This course is designed to give women practice in more advanced work in all phases of physical education including advanced gymnastics, advanced theory and practice of Indian clubs, wands and dumb bells, practice of apparatus work and stunts and rhythmic work. This is to prepare for work for high school grades. Three hours per week. For women only.

MISS DUNCKLEY

5-6. **PHYSICAL EDUCATION PRACTICE.** Both semesters. One credit each semester.

First semester: Value of tumbling, how to teach it, rolling, balancing, stunts, pyramids and group work, pointers and programs for exhibitions; apparatus work, nomenclature, parallel bars, bunch, horse, rings, horizontal bar, and combinations; apparatus and its place in the program. Second semester: Light apparatus, wands, Indian clubs, dumb bells, methods, demonstration and participation. For men only.

ASSISTANT PROFESSOR SMITH

8. **APPLIED PHYSIOLOGY.** Second semester. Four credits.

This introductory course, in a practical way, endeavors to emphasize the fundamentals; to present the basic elements and data concerning the structure and function of the human body in an orderly and logical sequence. Unsettled questions and lengthy lists of living experimenters have been left out and in their place frequent suggestions for the practical application of the theories advanced are stressed. Prerequisite, Applied Anatomy 18.

ASSISTANT PROFESSOR SMITH

7. **SWIMMING.** Second semester. One credit.

Non-swimmers learn to swim; intermediate swimmers acquire new strokes; advanced swimmers improve their technique; mastery of life-saving, diving, water stunts, programs, methods of teaching beginners, and water front administration; administration of tests; program building.

ASSISTANT PROFESSOR SMITH, MISS DUNCKLEY

12. PRINCIPLES OF COACHING. First semester. Three credits.
Lectures on football and basketball theory and technique. First aid treatment of sprains, bruises, and other common sport injuries. Men only. Prerequisite, 9, 10.

PROFESSOR SEFTON, ASSISTANT PROFESSORS BLAIR AND SMITH

13. PRINCIPLES OF COACHING. Second semester. Three credits.
Lectures on theory and technique of baseball, track, field athletics, soccer, tennis and volleyball. Practice in bandaging. Preparation for the Red Cross examination. Men only. Prerequisite, 9, 10.

PROFESSOR SEFTON, ASSISTANT PROFESSORS BLAIR AND SMITH

14. PRINCIPLES OF COACHING FOR JUNIOR WOMEN. First semester. Three credits.

Lectures on theories and technique and principles of hockey, soccer, and basketball. First aid treatment of sprains, bruises, and other common sport injuries. Prerequisite, 9, 10.

MISS DUNCKLEY

15. PRINCIPLES OF COACHING FOR JUNIOR WOMEN. Second semester. Three credits.

Lectures on theories, technique, and principles of volley ball, baseball, tennis, and track. Practice in bandaging. Preparation for the Red Cross examination. Prerequisite, 9, 10.

MISS DUNCKLEY

19. PRESCRIPTION OF EXERCISE. First semester. Two credits.

The work covers recognized needs of remedial work, normalcy in the human, health and physical diagnosis, causes of defects and their detection, influence of posture on physical and mental growth, body types and type characters. Prerequisite, 18.

ASSISTANT PROFESSOR SMITH

20. CORRECTIVE EXERCISE. Second semester. Two credits.

Technique of examination, organization, methods, schedule of exercise, and demonstration of correct exercises for each divergency. Prerequisite, 18.

ASSISTANT PROFESSOR SMITH

21-22. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION. Both semesters. Three credits each semester.

Objectives of physical education, principles of selection; classification of activities according to their values and adaptation to age, groups and sex; organization of material with reference to facilities, time allotment and objectives and the arrangement into well-balanced lessons. Lectures and recitations. Prerequisite, 26, 27.

PROFESSOR SEFTON

24. PHYSIOLOGY OF EXERCISE. First semester. Two credits.

Effects of exercise upon bodily functions, value of general efficiency, removal of defects, faulty community and personal hygiene, character education through bodily activities, proper expressions of emotions. Types of exercise, effects upon circulation, heart rate, blood pressure, respiration, neuro-muscular mechanisms and senses. Prerequisite, 8.

ASSISTANT PROFESSOR SMITH

26. STUDENT TEACHING. Either semester. Twelve credits.

Student teaching is done in the public schools of Akron in the various grade and high schools. A full semester is given to this subject. Certification of credits to the Registrar states the grade and subjects taught.

29-30de. SCHOOL HEALTH. Both semesters. Two credits each semester. The first semester deals with school sites, drainage, sanitation; beautifying; efficiency; school buildings, lighting, heating, sanitation; school furniture, seat equipment; gymnasium, size, care; school health problems, detection, remedies. The second semester's work deals with teaching health needs, programs, organizations, tests, materials.

ASSISTANT PROFESSOR SMITH

31de. PERSONAL HYGIENE. Either semester. Two credits.

The aim of this course is to give a scientific background for the various health activities of the school and the community. The important problem of the care of the body from both the individual and social viewpoints is carefully investigated.

MR. LIPPS

PSYCHOLOGY

PROFESSOR HAYES, ASSOCIATE PROFESSOR WOOD

FRESHMAN AND SOPHOMORE COURSES**1de. GENERAL PSYCHOLOGY.** Either semester. Three credits.

A course for the preparation of students for a general understanding of the feelings and emotions, motives and reactions of themselves and their fellow beings, and to prepare them for more advanced and specialized courses.

ASSOCIATE PROFESSOR WOOD

JUNIOR AND SENIOR COURSES**8. EXPERIMENTAL PSYCHOLOGY.** First semester. One credit.

Laboratory experimentation in the field of reactions to various sensory stimuli. Prerequisite, 1.

PROFESSOR HAYES

9. EXPERIMENTAL PSYCHOLOGY. Second semester. One credit.

Continuation of course 8. Development of technique of experimentation; more complex reactions. Prerequisite, 1.

PROFESSOR HAYES

10. EXPERIMENTAL PSYCHOLOGY. First semester. One credit.

The measurement of rates of learning, motor learning, learning of mazes. Prerequisite, 1.

PROFESSOR HAYES

11. EXPERIMENTAL PSYCHOLOGY. Second semester. One credit.

Learning of complex material, foreign language, non-sense material, logical associations. Prerequisite, 1.

PROFESSOR HAYES

GRADUATE COURSES (OPEN TO SENIORS AND GRADUATE STUDENTS)**102. SOCIAL PSYCHOLOGY.** First semester. Two credits.

The psychological bases of customs, social groups, mobs, superstitions, social control, clubs, castes, publics and other social controls. Prerequisite, Psychology 1 and Educational Psychology 3.

PROFESSOR HAYES

103de. ADVANCED PSYCHOLOGY. Second semester. Two credits.
A general intensive survey of the fields of psychology especially for graduate students who are majoring in education. Not open to undergraduates. Prerequisite, I. PROFESSOR HAYES

105. GENETIC PSYCHOLOGY. Second semester. Two credits.
Basic course for graduate students in psychology. A knowledge of some biology is advantageous. Analysis of neural and mental reactions of lower order. Simpler processes of learning in man; early mental processes of the infant. Prerequisite, I. PROFESSOR HAYES

106de. ABNORMAL PSYCHOLOGY. Second semester. Two credits.
This course will consist of lectures, discussions and reports dealing with disorders of perception, association, memory, affection, volition, personality, judgment and action, with respect to their respective normal phenomena. Open to graduate students and those whose experience has fitted them for appreciative study in this field. PROFESSOR HAYES

107de. PSYCHOLOGICAL SYSTEMS. First semester. Two credits.
The various theories, definitions and conceptions of psychology will be studied. Some library work is required in the field of psychic causation and the theories of the subconscious. Prerequisite, I. PROFESSOR HAYES

112. RESEARCH IN EXPERIMENTAL PSYCHOLOGY. Credit by arrangement.
Individual experimentation in the field of pure psychology or educational psychology. Problem subject to approval of the department. Prerequisite, I. PROFESSOR HAYES, ASSOCIATE PROFESSOR WOOD

113de. PSYCHOLOGY OF RELIGION. First semester. Two credits.
An attempt will be made to support the position that religion is a normal part of human development. The phenomena of religious experience will be put on the same scientific footing as the phenomena of the other ranges of experience. No brief will be made for any form of religious faith nor for any form of anti-religious doctrine. ASSOCIATE PROFESSOR WOOD

RESEARCH

101-102. SEMINAR. Both semesters. Two credits each semester.
Various members of the class will present theses, and special problems will be presented by invited persons. DEAN BANKES

103. THESIS. Four credits.
This course is open to graduate students and is required of all who are candidates for the Master's degree. Conferences by appointment are held during both semesters. In addition to the preparation of the thesis, at least two appearances before the Seminar are required. A fee of \$10 is charged.

104. RESEARCH PROBLEM. Credit by arrangement.
This course is open to graduate students and is in addition to the thesis. Only those who have received permission from their major professor and whose problem is approved, may receive credit. A fee of \$5 is charged.

VOCATIONAL EDUCATION

ASSISTANT PROFESSOR GREENLY

3. EDUCATIONAL AND VOCATIONAL GUIDANCE. Second semester. Two credits.

A basic course in guidance as an integrating influence in education. Youth must be oriented to social organization, a function as many phased as education itself. Guidance must be more than vocational, although the life career motive is the organizing factor. Canton—Monday, 9:00-11:00 a. m. ASSISTANT PROFESSOR GREENLY

16de. SHOP MANAGEMENT. First semester. Two credits.

A study of housing conditions and factors governing the selection and installation of equipment. Problems of shop maintenance, the securing of equipment and supplies and the conduct of the shop on a proper instruction basis. The reaction of equipment on the whole vocational program. Attention will be given to the educational abilities and preparation of students for the various shops selected. Variations in course content to meet students' abilities. Forms will be developed recording student progress, ordering materials and supplies, reporting to administrative officers, etc. Akron—Thursday, 4:00-6:00 p. m., Hower Trade School. ASSISTANT PROFESSOR GREENLY

20de. PHILOSOPHY OF THE GENERAL CONTINUATION SCHOOL. First semester. Two credits.

A brief survey of the purposes of education as carried on in our public schools; various studies and surveys of employed youth to establish the need for civic, social and economic training; investigation of the early withdrawal of employed youth from schools as a foundation upon which to base readjustments of the curriculum. Canton—Monday, 9:00-11:00 a. m. Akron—Friday, 2:00-4:00 p. m., Perkins School. Youngstown—Tuesday, 5:00-7:00 p. m. ASSISTANT PROFESSOR GREENLY

24. DETERMINATION OF TEACHING CONTENT IN THE GENERAL CONTINUATION SCHOOL. First semester. Two credits.

Occupational studies; evaluation of text book materials; studies of experiences of employed youth, various bulletins; visual instruction through moving pictures and stereopticons; investigations of the relative merits of educational content available. ASSISTANT PROFESSOR GREENLY

25. ORGANIZATION OF INSTRUCTION MATERIAL. First semester. Two credits.

Sources of course content; principles governing modern curriculum construction; effective arrangement of teaching content; application of governing principles. ASSISTANT PROFESSOR GREENLY

26de. METHODS OF TEACHING OCCUPATIONAL SUBJECTS. Second semester. Two credits.

Various methods of instruction in occupational subjects are studied and evaluated in terms of analysis and organization of curricular content and psychological principles. Teaching devices are examined. Exem-

plary teaching plans are required and their use explained and constructively criticized. Youngstown—Tuesday, 5:00-7:00 p. m. Akron—Thursday, 4:00-6:00 p. m.

ASSISTANT PROFESSOR GREENLY

27de. HISTORY AND PHILOSOPHY OF VOCATIONAL EDUCATION. First semester. Two credits.

A brief survey of the development of Vocational Education. The place of Vocational Education in a democracy. Apprenticeship under the Guild System. Social and economic factors that have affected apprenticeship. Various types of organization for Vocational Education to meet present day economic and social conditions. Theories underlying State and Federal aid for Vocational Education. Youngstown—Tuesday, 5:00-7:00 p. m. Akron—Thursday, 4:00-6:00 p. m., Hower Trade School.

ASSISTANT PROFESSOR GREENLY

28de. ORGANIZATION AND ADMINISTRATION OF VOCATIONAL EDUCATION. Second semester. Two credits.

A brief description of state and local school organization and administration. The Smith-Hughes Act. The State Plan. Procedure in establishing and maintaining the types of classes and instruction in accordance with the Federal Act and State Plan. The Unit Trade School, Cosmopolitan High School, Part-time School and classes within Industry. Co-ordination of vocational school and industry. Organization and functions of apprenticeship committees. Akron—Friday, 2:00-4:00 p. m., Perkins School.

ASSISTANT PROFESSOR GREENLY

31. INDUSTRIAL AND EDUCATIONAL CO-ORDINATION. Second semester. Two credits.

Procedure necessary to arrive at the problems of the employed youth; information that may be given teachers to assist in instruction; organizing, systematizing and filing information for continuous use; co-ordination as the special problem of harmonizing all efforts to promote the educational welfare of working youth. ASSISTANT PROFESSOR GREENLY

EVENING AND SATURDAY COURSES

Further information concerning Evening and Saturday courses which are offered throughout the year may be secured from Dean W. J. Banks, or the Director of the Evening Session.

THE EVENING SESSION

LOWELL L. HOLMES, M. A., *Director*

GENERAL INFORMATION

All colleges of the University offer courses in the Evening Session. Credit is given toward a degree for regularly prescribed college subjects. Candidates for a degree must satisfy the entrance requirements of the University.

Besides offering the prescribed subjects leading to degrees, the various colleges have developed the following certificate courses which require approximately thirty-six hours of college work:

BUCHTEL COLLEGE OF LIBERAL ARTS: Writers Course.

COLLEGE OF ENGINEERING AND COMMERCE: Municipal Engineering, Industrial Electricity, Machine Design and Power, Industrial Production, Management, Accounting, Association Courses in Advertising, Real Estate, Purchasing, Private Secretarial and General Office.

ACADEMIC CREDIT

College credit will be given on the basis of one credit hour for the completion of 15 clock hours of recitation work. Each hour of recitation should require two hours of library and home preparation to maintain college standards.

At the end of each semester the Registrar will mail the record of grades to the last known address of the student. On request, these records will be mailed to other colleges to apply toward a degree, or to the State Department of Education for certification, or to the student's employer.

STUDENT'S SEMESTER LOAD

Students holding full-time positions will be permitted to take six semester hours of work (90 hours of recitation) during any semester. Additional hours must be approved in writing by the Director. Teachers employed in the Akron Public Schools must have special permission to register for more than four credit hours in one semester.

ADMISSION

Students are admitted by examination, high school certificate, or honorable dismissal from other colleges or universities, or if over twenty-one years of age, as special students not in candidacy for a degree. No student will be admitted to class work for credit after classes have been in session two weeks.

REGULAR: The requirement for regular admission is graduation from an accredited four-year high school and a quality of high school work equal to the passing grade of that school plus one third the interval between the passing grade and 100.

Students who have had college work elsewhere must have transcripts sent to the University Examiner, by the institutions from which transfers are made, if advanced standing is desired, or if a plan of study is to be made.

SPECIAL: Those who are over 21 years of age may be admitted as special students not candidates for degrees.

IRREGULAR: Students having a greater part of their undergraduate work at another college or university and who wish to return to that institution for a degree are classified as irregular students. It is advisable for the institution granting the degree to specify the subjects required for completion of the work for the degree.

Further information concerning admission may be found in the bulletins of the various colleges and the General Information Bulletin.

EXAMINATIONS

A final examination is given in each subject for which credit is given. In examinations, as in class and home work, account is taken of the student's use of English, the form of the paper in general and the organization of material.

GRADING SYSTEM

93-100 inclusive	.....	Excellent	.....	A
85-92 inclusive	.....	Good	.....	B
77-84 inclusive	.....	Fair	.....	C
70-76 inclusive	.....	Poor	.....	D
Below 70	.....	{ Conditioned	.....	E
		{ Failed	.....	F
Incomplete	.....			I

"Conditioned" means that although the semester's work is not of passing grade the deficiency may be made up without repeating the course in class. Failure to remove the deficiency satisfactorily by the close of the student's next semester in the University shall convert the grade to F. No higher grade than "D" shall be given for the removal of a "Condition."

The grade "conditioned" may be given only for the first semester's work in a subject continuing through two or more semesters.

"Incomplete" means that the student has done passing work in the course, but some part, for good reason, has not been completed. Failure to make up the omitted work satisfactorily within the first 6 weeks of the student's next semester in the University shall convert the grade to F.

ATTENDANCE AND COLLEGE CREDIT

When a student has been absent from class twice as many hours as the subject offers credit in each semester, he may be dropped from the class upon recommendation of his instructor. Recommendation of the instructor and the approval of the Director are necessary for re-instatement.

DEGREES

Students seeking credit toward degrees either at the University of Akron or any other university should see the University Examiner to make sure that their entrance credits meet the requirements. Each candidate for a degree at the University of Akron must declare his intention to graduate at the time of registration in the fall prior to the June graduation exercises. Each candidate shall comply with all rules and regulations of the college granting the degree.

EVENING SESSION CALENDAR 1930-31

1930 Month	FIRST SEMESTER						Week	SECOND SEMESTER						1931 Month
	M.	T.	W.	Th.	F.	S.	M.	T.	W.	Th.	F.	S.		
Sept.				*18	19	20					*5	6	7	Feb.
	22	23	24	25	26	27	1	9	10	11	12	13	14	
Oct.	29	30	1	2	3	4	2	16	17	18	19	20	21	
	6	7	8	9	10	11	3	23	24	25	26	27	28	
	13	14	15	16	17	18	4	2	3	4	5	6	7	March
	20	21	22	23	24	25	5	9	10	11	12	13	14	
Nov.	27	28	29	30	31	1	6	16	17	18	19	20	21	
	3	4	5	6	7	8	7	23	24	25	26	27	28	
	Spring Vacation													
	10	11	12	13	14	15	8	6	7	8	9	10	11	April
	17	18	19	20	21	22	9	13	14	15	16	17	18	
	Thanksgiving Vacation													
Dec.	1	2	3	4	5	6	10	20	21	22	23	24	25	
	8	9	10	11	12	13	11	27	28	29	30	1	2	May
	15	16	17	18	19	20	12	4	5	6	7	8	9	
	Christmas Vacation													
Jan.	5	6	7	8	9	10	13	11	12	13	14	15	16	
	12	13	14	15	16	17	14	18	19	20	21	22	23	
	19	20	21	22	23	24	15	25	26	27	28	29	30	
	26	27	28	29	30	31	16	1	2	3	4	5	6	June

REGISTRATION

Main Lobby—Buchtel Hall—University Campus
East Buchtel Ave., at College Street

	THURSDAY	FRIDAY	SATURDAY
*First Semester	Sept. 18	Sept. 19	Sept. 20
*Second Semester	Feb. 5	Feb. 6	Feb. 7
	12 to 9 p. m.	12 to 9 p. m.	9 a. m. to 9 p. m.

If you cannot be present in person, use mailing blank on last page of this bulletin.

Payment of fees in full must accompany all registrations by mail and unless they bear a post mark of midnight, September 20, or February 7, they must include the late registration fee of \$5.00.

Members of the faculty of each college will be present for consultation. Pre-registration can be arranged by appointment. Telephone, Blackstone 4124.

Class work and late registration begin September 23 and February 9. No registrations will be accepted after October 4 and February 21.

CONFERENCES BY APPOINTMENT

The Director will be available for consultation with students and prospective students each Wednesday evening after September 3, and at other times by appointment. The Deans of the Colleges or their representatives will interview by appointment students who are planning to take degrees in their respective colleges. Those wishing interviews on or after September 8 should apply at the Evening Session Office.

FEES AND EXPENSES

All fees are payable at the Secretary's office before the student enters classes.

MAINTENANCE FEE

Payable by all students in the Evening Session.

For 1 or 2 credit hours	\$12.00
For 3 credit hours	18.00
For 4 credit hours	24.00
For 5 credit hours	30.00
For 6 credit hours or more	35.00

Evening Session Institute Lectures:

For a two evening course	2.00
For more than a two evening course, in addition to the \$2.00, 50c per evening.	

GRADUATION FEE

Bachelor's degree	\$ 5.00
Master's degree	10.00

MISCELLANEOUS FEES

A fee of \$5.00 will be charged students who have not completed registration, classification and payment of fees before September 22 for the first semester, and February 9, for the second semester.

After a student has been classified a charge of \$1 will be made for any change in his program which is not made at the instance of the University authorities.

Laboratory fees will be charged in those subjects in which incidental expenses are incurred. See course descriptions.

WITHDRAWALS

Necessary withdrawals on account of sickness or other cause entirely beyond the control of the student will be taken care of as the individual cases arise. Application for adjustment of fees and rules covering same may be obtained at the Director's Office.

STUDENT ACTIVITIES

THE HILL-TOP EVENING STAR. The members of the Journalism classes publish this official organ of the Evening Session. It appears monthly during the college year and is distributed without charge to Evening Session Students. Contributors are not limited to those taking the Journalism classes, but the greater benefit may be obtained by enrollment.

THE MANUSCRIPT CLUB encourages writing as a vocation through the production, improvement, and mutual criticism of manuscripts. Admission is given upon evidence of ability in writing. The club is sponsored by the Writers Certificate Course and active membership is open to those who have taken three semesters of the course. An initial fee of \$2.00 will establish a working fund for publication of worthy manuscripts; additional fees will be charged as determined by members. The club is under the general direction of Professor R. B. Pease. Prominent writers are invited to speak and to lead discussions. Meets semi-monthly, Wednesday evenings, 8:00-9:30.

THE EVENING SESSION STUDENTS' ASSOCIATION promotes social and cultural activities among the students. The Student Senate, the directing force of the Association, is elected in a most democratic manner. Each semester at the first meeting of every class, each student gives a brief introduction of himself. During the second week the class elects two representatives. The first meeting of the representatives is held October 3 of the first semester and February 20 of the second semester, when seven are elected from the representatives to form the senate and elect officers to carry on the semester's business.

THE EVENING THEATRE is open to all students of the Evening Session who are interested in dramatics. All phases of dramatics are undertaken, including casting, directing, play production, stagecraft, lighting, acting and business management. The Theatre gives one major production each semester and numerous short plays throughout the year. For details consult Professor Donald Hayworth.

STUDENT CLUBS. The following clubs of the University are open to membership for students of the Evening Session who fulfill certain requirements. For complete details see the clubs' advisers, who are as follows: *Art Club*—Mrs. Barnhardt; *Biology Club*—Professor Kraatz; *Evening Theatre*—Professor Hayworth; *Commerce Club*—Professor Leigh; *French Club*—Professor Reed; *Spanish Club*—Miss Fanning; *Home Economics Club*—Miss Lathrop; *Manuscript Club*—Professor Pease.

ABBREVIATIONS USED IN CLASS SCHEDULES

A. I. refers to Akron Art Institute; B to Buchtel Hall; CC to Curtis Cottage; E to Engineering building; K to Knight Laboratory; MH to Music House; O to Olin Hall; PH to Phillips Hall; SS to Spicer School. The number after each letter indicates the room in which the class will recite.

The letter "e" following a course number indicates that it is an evening session course only. "de" following a number indicates both day and evening sessions.

1-2 under "Semester" in class schedules indicates the course is to continue the second semester; 1.2. indicates that it is repeated.

Parentheses marks () around figures under "credit" indicate that no college credit is given for the course.

Other abbreviations used are ME, Mechanical Engineering; M, Machine Design; Mu, Municipal Engineering; C, Commerce; A, Liberal Arts; and S, Secretarial Science.

BUCHTEL COLLEGE OF LIBERAL ARTS

A. I. SPANTON, A. M., Dean

THE COLLEGE OF LIBERAL ARTS endeavors to carry out the wishes of the Founder of Buchtel College, namely, "to secure the highest grade of classical, scientific and literary culture." Four-year courses are offered leading to the degrees of Bachelor of Arts and Bachelor of Science. See Liberal Arts College Bulletin for requirements.

*SCHEDULE OF CLASSES

Semester	Subject	Credits	Days	Hours	Room
BIOLOGY					
1-2	Organic Evolution	2	W.	5:50-7:50	O 25
1-2	Bacteriology	2	M.	5:50-7:50	O 25
1-2	General Botany	2	T.	5:50-7:50	O 25
ECONOMICS					
1-2	Principles of Economics	3	M.-W.	8:00-9:30	B 26
1	Corp. Org. & Finance	3	M.-W.	6:20-7:50	B 26
2	Investments	3	M.-W.	6:20-7:50	B 26
1-2	Introduction to Sociology	3	M.-W.	8:00-9:30	B 25
ENGLISH					
1-2	Rhetoric A1e-2e	3	T.-Th	6:20-7:50	B 37
1	Rhetoric A2e	3	M.-W.	8:00-9:30	B 13
1-2	Business English	(2)	W.	5:50-7:50	CC 8
1-2	History of English Literature	3	T.-Th	8:00-9:30	B 25
1	Advanced Composition	3	M.-W.	6:20-7:50	B 32
2	Modern Drama	3	M.-W.	6:20-7:50	B 32
1	Shakspeare	3	M.-W.	6:20-7:50	B 38
1-2	News Writing & Cont. Journalism	3	W.	5:50-7:50	B 22
1-2	Editing	1	(Set by class)		B 14
HISTORY					
1-2	History of England	3	M.-W.	6:20-7:50	B 25
MATHEMATICS					
1-2	Algebra	(3)	T.-Th	6:20-7:50	E 14
1-2	College Algebra	4	T.-Th	5:50-7:50	B 38
2	Trigonometry	4	T.-Th	5:50-7:50	K 20
1-2	Analytic Geometry	2	M.	5:50-7:50	B 15
1	Differential Calculus	3	M.-W.	8:00-9:30	B 38
2	Integral Calculus	3	M.-W.	8:00-9:30	B 38
2	Business Mathematics	3	M.-W.	8:00-9:30	B-37
MODERN LANGUAGES					
1-2	First Year French	4	T.-Th	5:50-7:50	B 15
1-2	Second Year French	3	M.-W.	8:00-9:30	B 11
1-2	First Year Spanish	4	T.-Th	5:50-7:50	B 11
1-2	Second Year Spanish	3	M.-W.	6:20-7:50	B 11
1-2	First Year German	4	T.-Th	5:50-7:50	B 22
1-2	Second Year German	3	M.-W.	8:00-9:30	B 22
1-2	First Year Italian	4	T.-Th	8:00-10:00	B 11
PHILOSOPHY					
1-2	Introduction to Philosophy	3	T.-Th	8:00-9:30	O 21
1-2	History of Philosophy	3	T.-Th	6:20-7:50	O 21
POLITICAL SCIENCE					
1	Problems of Citizenship	3	T.-Th	8:00-9:30	B 38
2	International Relations	3	M.-W.	6:20-7:50	B 37
1	Government of England	3	M.-W.	6:20-7:50	B 37
2	Problems in City Administration	3	M.-W.	8:00-9:30	B 38
SPEECH					
1-2	Business Men's Public Speaking	2	M.	8:00-10:00	O 25
1	Public Speaking	3	M.-W.	6:20-7:50	B 12
2	Radio Speaking	3	M.-W.	6:20-7:50	B 12
1	Stagecraft	3	M.-W.	6:20-7:50	B 13
1-2	Interpretation	3	T.-Th	8:00-9:30	B 12
1-2	Voice-Speech	3	T.-Th	6:20-7:50	B 12
2	Play Directing	3	M.-W.	6:20-7:50	B 13
1-2	Speech Correction	3	M.-W.	6:20-7:50	B 13-A
1-2	Elimination of Foreign Accent (Sec. A.) ....(2)		T.	5:50-7:50	B 13
	Elimination of Foreign Accent (Sec. B.) ....(2)		W.	8:00-10:00	B 13
PHYSICAL EDUCATION					
1-2	Business Men's Gymnasium Classes	(2)	M.	7:00-9:00	Gym

* See page 165 for explanation and abbreviations.

BIOLOGY

PROFESSOR FLOWMAN, ASSISTANT PROFESSORS KRAATZ, SLAGG, FOX

65e-66e. ORGANIC EVOLUTION. Both semesters. Two credits each semester. Evidence supporting organic evolution, a brief history of the evolution concept, and a survey of the various theories of organic evolution. This course is elementary in its field, but some knowledge of general biological facts and principles is desirable. W., 5:50-7:50.

67e-68e. GENERAL BOTANY. Both semesters. Two credits each semester. A study of the comparative anatomy, natural history, identification and classification of native mosses, ferns, and seed plants. No prerequisite. T., 5:50-7:50.

69e-70e. GENERAL GEOLOGY. Both semesters. Two credits each semester. Given in 1931-32.

71e-72e. BACTERIOLOGY. Both semesters. Two credits each semester. Lectures and demonstrations dealing with Bacteriology and its applications to everyday life. Study is made of the uses of bacteria in the arts, and of the applications of bacteriology to domestic, industrial and natural processes, as well as of the disease-producing bacteria. The student should have some knowledge of elementary Biology and Physiology. M., 5:50-7:50.

CHEMISTRY

ASSISTANT PROFESSORS SCHMIDT AND COOK

Students interested in Chemistry should consult the director of the Evening Session; a class will be formed if fifteen request the subject.

ECONOMICS AND SOCIOLOGY

PROFESSOR DAVIS, ASSISTANT PROFESSORS HOLMES AND ANTHONY

A1e-2e. PRINCIPLES OF ECONOMICS. Both semesters. Three credits each semester.

Basic principles and concepts in economics, including the production, consumption and distribution of wealth; business organization; capitalistic combination; problems of labor; prices, wages, interest, rent and profits; money, credit and banking; international trade, economic crises, transportation, agricultural problems, risks and insurance, taxation and public expenditures. This course or its equivalent is required for entrance for credit to other advanced courses. M., W., 8:00-9:30.

A5e. CORPORATION ORGANIZATION AND FINANCE. First semester. Three credits.

The different forms of business organization; corporate securities; problems of financing new enterprises; problems of current operations, corporation policies, treatment of earnings, expansion and consolidation, and procedures in failure, receivership and reorganization. Prerequisite, Economics A1e or equivalent. M., W., 6:20-7:50.

A6e. INVESTMENTS. Second semester. Three credits.

The nature, principles and technique of investment; the different types of investment and speculative securities and institutions; the New York Stock Exchange, its organization, personnel, functions and practical operation. Practice in handling an investment portfolio, and constant use of the investment services. Prerequisite, Economics A1e-2e or equivalent. M., W., 6:20-7:50.

A1e. INTRODUCTORY SOCIOLOGY. Both semesters. Three credits each semester.

The basic concepts and fundamental principles and methods of Sociology; the origin development, structure and control of human society. M., W., 8:00-9:30.

ENGLISH

DEAN SPANTON, PROFESSOR PEASE, ASSISTANT PROFESSOR MITCHELL,
MRS. IRISH, MISS RAW, MR. ROBERTS, MISS STEVENSON,
MR. STICKNEY, MR. VANCE.

WRITERS' CERTIFICATE COURSE

It is the purpose of this course, which is under the direction of Professor Pease, to train individuals from all walks of life in the art and technique of writing. The objective may be measured in two ways; by publication and by personal satisfaction of presenting ideas in a logical and orderly fashion.

The certificate is presented upon completion of 36 credits and evidence of proficiency in the field of writing. Eighteen credits are required and the other 18 credits may be elected, as follows:

REQUIRED			
	Credits	Credits	
Rhetoric, A1e-2e	6	Writing the Short Story, A5e	3
Advanced Composition, A3e	3	Dramatic Development in Fiction	3
The Essay	3		
ELECTIVE			
Development of the English Novel	3	Sociology	3
English Literature	6	Industrial History	3
American Literature	6	Manuscript Club	No Credit
Types of Literature	6	English or American History	6
The Modern Drama	3	Economics	3
The English Novel	3	Psychology	3

A1e-2e. RHETORIC. Both semesters. Three credits each semester.

Elementary instruction in English composition; practice in expressing ideas. First semester, sentence and paragraph structure; the writing of short expository compositions. Second semester, analysis of description, argument, and narration, and the writing of longer papers within these types of composition. T., Th., 6:20-7:50.

A2e. RHETORIC. First semester. Three credits.

This class will be given for those students who have satisfactorily completed Rhetoric A1e providing fifteen or more register. M. W., 8:00-9:30.

A5e. SHORT STORY WRITING. First semester. Three credits.

Given in 1931-32.

A25e-26e. INTRODUCTION TO LITERATURE: Types of Prose and Poetry.

Both semesters. Three credits each semester.

Given in 1933-34.

DRAMATIC DEVELOPMENT IN FICTION. Second semester. Three credits.

Given in 1932-33.

A39e-40e. THE NOVEL. Both semesters. Three credits each semester.

Given in 1931-32.

A31e. SHAKSPERE. First semester. Three credits.

The development of Shakspere as a dramatist and his place in the Elizabethan Age and in the history of English literature. Most of the plays are read. Prerequisite, 1-2. M., W., 6:20-7:50.

A44e. THE MODERN DRAMA. Second semester. Three credits.

This course is a study of the principal dramatic writers from the nineteenth century to the present time. Lectures, readings, and papers. Prerequisite, 25-26 or 27-28. M., W., 6:20-7:50.

A45e-46e. AMERICAN LITERATURE. Both semesters. Three credits each semester.

Given in 1931-32.

A27e-28e. HISTORY OF ENGLISH LITERATURE. Both semesters. Three credits each semester.

An introductory survey of the great English authors, the chief types of prose and poetry, and the historical backgrounds and tendencies of literary periods. This course, not 25-26, should be elected by students who are majoring in English or who plan to take other courses in literature. Prerequisite, 1-2. T., Th., 8:00-9:30.

S4e. BUSINESS ENGLISH. Either semester. Two credits.

Described under Secretarial Science.

1e. NEWS WRITING AND EDITING. First semester. Three credits.

The writing and editing of news; lectures by the instructor and by members of the staffs of Akron newspapers; assigned reports; exercises; text book work. Members of the class write and edit "The Hilltop Evening Star," the monthly newspaper of the Evening Session. W., 5:50-7:50.

2e. CONTEMPORARY JOURNALISM. Second semester. Three credits.

Continuation of News Writing and Editing with emphasis on the profession as a whole; staff organization, newspaper policies, and modern trends. Laboratory work in connection with the student newspaper. W., 5:50-7:50.

3e-4e. EDITING. Both semesters. One credit each semester.

This class has charge of editing The Hilltop Evening Star, student newspaper. Problems of publishing the paper form the basis of informal discussions. The class is limited to six students, selected from applicants by the instructor in charge, and will meet at a time set by the instructor and students. Prerequisite, News Writing 1e or 2e or equivalent.

HISTORY

ASSISTANT PROFESSOR GARDNER

HISTORY OF ENGLAND PRIOR TO 1688. First semester. Three credits.
A study of the origin and development of English government and institutions with particular emphasis on the growth of the English people. M., W., 6:20-7:50.

HISTORY OF ENGLAND SINCE 1688. Second semester. Three credits.
This course is devoted primarily to three problems: constitutional or parliamentary development; the revolutionary period; and imperial expansion with its multifarious results. M., W., 6:20-7:50.

A11e. AMERICAN HISTORY TO 1865. First semester. Three credits.
Given in 1931-32.

A12e. AMERICAN HISTORY SINCE THE CIVIL WAR. Second semester.
three credits.
Given in 1931-32.

MATHEMATICS

PROFESSOR JONES, ASSISTANT PROFESSORS BENDER AND SILBERFARB,
MISS LIPSCOMBE, MISS GOODMAN

A1e. COLLEGE ALGEBRA. Either semester. Four credits.
A review of surds and exponents; linear and non-linear equations; proportion and variation, progressions, mathematical induction, binomial theorem, permutations, combinations, probability, complex numbers, determinants. T., Th., 5:50-7:50.

1e. ALGEBRA. Either semester. Three hours. No college credit.
Students who are not prepared to take up College Algebra will take elementary algebra leading up to the study of simultaneous quadratics. T., Th., 6:20-7:50.

A2e. TRIGONOMETRY. Second semester. Four credits.
Angles and their measurements; the trigonometric functions, fundamental identities, reduction theorems, addition and multiplication theorems, trigonometric equations, inverse trigonometric functions, right and oblique triangles, logarithms. T., Th., 5:50-7:50.

A3e-4e. ANALYTIC GEOMETRY. Both semesters. Two credits each semester.

A study of the straight line, circle, conic sections, and polar curves; transformation of co-ordinates, higher algebraic and transcendental curves, and a brief treatment of space co-ordinates and loci. May be studied simultaneously with Calculus. Prerequisite, A1e-A2e. M., 5:50-7:50.

A5e. DIFFERENTIAL CALCULUS. First semester. Three credits.
The differentiation of functions of a single variable, maxima and minima, curve tracing, and simple applications to mechanics. Prerequisite 1, 2, 3, 4. M., W., 8:00-9:30.

A6e. INTEGRAL CALCULUS. Second semester. Three credits.
General and special methods of integration, definite integrals, partial differentiation and applications to geometry, mechanics and physics. Prerequisite, 5. M., W., 8:00-9:30.

C58e. BUSINESS MATHEMATICS. Second semester. Three credits.

Calculations of business and the theory involved in such processes; logarithms and the use of formulas and tables; simple and compound interest; annuities; valuation of securities, amortization; the methods of financing corporations. M., W., 8:00-9:30.

MODERN LANGUAGES

PROFESSORS BULGER, YOUNG, ASSISTANT PROFESSOR REED, MISS FANNING

Candidates for entrance presenting but one year of Modern Language may take the second year on trial if they made a grade of 85%. If their grade was lower than 85%, they must take the first year's work and will receive only half credit for the work. Students who have had one year's work in a secondary school will receive half credit if they take the first year's work. Students who have had two or more years' work in a secondary school will receive no credit if they take the first year's work.

Advanced courses will be offered for a registration of fifteen students.

A1e-2e. BEGINNING FRENCH. Both semesters. Four credits each semester. A thorough study of grammar with especial emphasis upon dictation and oral work. In the second semester work, grammar is continued with reading of two hundred or more pages of French. T., Th., 5:50-7:50.

A3e-4e. SECOND YEAR FRENCH. Both semesters. Three credits each semester.

Reading, Conversation and Composition. M., W., 8:00-9:30.

A1e-2e. BEGINNING GERMAN. Both semesters. Four credits each semester. Elementary grammar. Reading of easy prose and verse. Practice in speaking and writing German. T., Th., 5:50-7:50.

A3e-4e. SECOND YEAR GERMAN. Both semesters. Three credits each semester.

Reading, Conversation and Composition. M., W., 8:00-9:30.

A1e-2e. BEGINNING SPANISH. Both semesters. Four credits each semester.

This course is designed to give intensive training in composition, dictation, conversation, and the reading of simple prose. T., Th., 5:50-7:50.

A3e-4e. SECOND YEAR SPANISH. Both semesters. Three credits each semester.

Reading, Conversation and Composition. T., Th., 8:00-9:30.

A1e-2e. BEGINNING ITALIAN. Both semesters. Four credits each semester.

This course is designed to give intensive training in composition, dictation, conversation, and the reading of simple prose. T., Th., 8:00-10:00.

PHYSICS

PROFESSOR HOUSEHOLDER, ASSISTANT PROFESSOR ROLLEFSON, MR. FOUTS

Students interested in Physics should consult the Director of the Evening Session; a class will be formed if fifteen request the subject.

PHYSICAL EDUCATION

PROFESSOR SEFTON, MR. LIPPS

PHYSICAL EDUCATION. Either semester. Two hours. Open to any man who is interested in maintaining his physical health. Activities of the class will be adapted to the individual according to his age, physical condition and occupation. Students may make arrangement with the dean to have this course fulfill the one credit requirement for physical training toward a degree. The dean's approval must be in writing and the student must advise the Evening Session office at once about such approval. W., 7:00-9:00.

PHILOSOPHY

MR. DONLEY

HISTORY OF PHILOSOPHY. Both semesters. Three credits each semester. The development of reasoned human thought; a study of theories in their relation to one another, their times and thinkers by whom offered. T.-Th., 6:20-7:50.

INTRODUCTION TO PHILOSOPHY. Both semesters. Three credits each semester.

To orient the student in systems of thought; realism, neorealism, empiricism, rationalism, pragmatism, idealism; to awaken individual reflection. T.-Th., 8:00-9:30.

POLITICAL SCIENCE

PROFESSOR CRECRAFT, ASSISTANT PROFESSOR SHERMAN

A1e. PROBLEMS OF CITIZENSHIP. First semester. Three credits. An introductory course including basic social, economic, and political problems of American social and civic life. T., Th., 8:00-9:30.

A25e. INTERNATIONAL RELATIONS. Second semester. Three credits. The political and legal aspects of international relations, international policies and organization; international law. M., W., 6:20-7:50.

15e. GOVERNMENT OF ENGLAND. First semester. Three credits. The constitution, the crown, the council, the cabinet, the departments, the civil service, parliament, parties, courts and the municipalities. M., W., 6:20-7:50.

5e. PROBLEMS IN CITY ADMINISTRATION. Second semester. Three credits.

Selections of personnel, financial operations, public safety, charities and correction, education, recreation, wastes, sewerage, water, lighting, control of utilities, etc. M., W., 8:00-9:30.

SPEECH

PROFESSOR HAYWORTH, ASSISTANT PROFESSOR McNABB, MISS McEBRIGHT,
MISS DYE, MR. TURNER

A1e. PUBLIC SPEAKING. First semester. Three credits.

A general course in practical public speaking and to satisfy graduation requirements. M., W., 6:20-7:50.

A9e. RADIO SPEAKING. Second semester. Three credits.

Practice in speaking over the microphone. Preparing material for broadcasting, including announcing, radio plays, sound effects, advertising, program building, and preparation of continuity. M., W., 6:20-7:50.

10e. BUSINESS MEN'S PUBLIC SPEAKING. Either semester. Two credits. Study, lectures, and practice. This class, designed for salesmen and business men, is limited to twenty-five who are willing to enter heartily into class practice. M., 8:00-10:00.

A21e. STAGECRAFT. First semester. Three credits.

A study of the development of the stage, kinds of scenery, methods of production, lighting, scene design, and construction of models. M., W., 6:20-7:50.

A31e-32e. INTERPRETATION. Both semesters. Three credits each semester. A study of dialect, humorous and dramatic readings and rehearsals in preparation for their presentation. T., Th., 8:00-9:30.

A33e-34e. VOICE AND SPEECH. Both semesters. Three credits each semester.

The purpose of this course is to improve the quality of the voice for speech. Attention will also be given to the improvement of articulation. T., Th., 6:20-7:50.

A38e. PLAY DIRECTING. Second semester. Three credits.

This course is designed to improve ability to select, cast and mount a play, with special attention to technical problems and rehearsals. M., W., 6:20-7:50.

A41e-42e. SPEECH CORRECTION. Both semesters. Three credits each semester.

A study of the nature and treatment of such functional speech defects as stuttering, lisping, baby talk, foreign accent, and dialect, and of such organic defects as cleft palate, parietic cases, and malocclusion. M., W., 6:20-7:50.

47e-48e. ELIMINATION OF FOREIGN ACCENT. Both semesters. No college credit.

For those who have learned another language before taking up English. Each person's speech will be analyzed, and his needs discovered, and such instruction in phonetics as is necessary given. Section A will be limited to nine students. Due to the small size of the class an extra charge of \$5.00 will be made. Section B is limited to twenty. Fees are the same for Section B as for other courses. Section A: T., 5:50-7:50. Section B: W., 8:00-10:00.

CURTIS SCHOOL OF HOME ECONOMIC S

ELSIE M. MAXWELL, *Director*; MISS LATHROP, MISS COUNTS

*SCHEDULE OF CLASSES

Semester	Subject	Credits	Days	Hours	Room
1-2	Textiles	2	Th.	5:50-7:50	CC
1-2	Foods and Cookery	2	T.	5:50-7:50	CC
1-2	Child Care	2	M.	5:50-7:50	CC

It is the purpose of this department to serve the community by providing household management and home economics education for adult women. The offering at present is small but will be enlarged as more courses are demanded.

This department is equipped with an excellent food laboratory, and the Foods courses require the actual cooking of meals. Courses in clothing design have a well-equipped design and sewing room. The students will provide their own material for these classes.

3-4de. TEXTILES. Both semesters. Two credits each semester.

A study of standard textile fibers, with emphasis on factors which influence style, beauty, uses and wearing quality. Simple tests for judging materials. Th., 5:50-7:50.

12e-13e. DRESS SELECTION. Both semesters. Two credits each semester. Given in 1931-32.

DRESS CONSTRUCTION. Both semesters. Two credits each semester. Given in 1932-33.

15-16de. FOODS AND COOKERY. Both semesters. Two credits each semester. A study of the composition, values in the diet, selection, and principles of cookery and foods. A laboratory fee of \$3.75 a semester is charged. T., 5:50-7:50.

FOODS AND NUTRITION. Both semesters. Two credits each semester. Given in 1931-32.

33-34e. MEAL PLANNING AND TABLE SERVICE. Both semesters. Two credits each semester. Given in 1932-33.

25de. CHILD CARE. Both semesters. Two credits each semester.

The principles relating to development of the child through the prenatal, infancy, and pre-school periods. Physical, mental, social, and moral development in each period. Nutritional needs of various ages. Factors contributing to child welfare and its various phases. M., 5:50-7:50.

35-36de. METHODS IN TEACHING HOME ECONOMIC S. Both semesters. Two credits each semester. Given in 1931-32.

37e. PROBLEMS OF THE HOUSEHOLD BUYER. First semester. Two credits. Will deal with foods and clothing problems. Given in 1931-32.

38e. PROBLEMS OF THE HOUSEHOLD BUYER. Second semester. Two credits. Household equipment problems. Given in 1932-33.

* See page 166 for explanation of abbreviations.

COLLEGE OF ENGINEERING
AND COMMERCE

FRED E. AYER, C. E., *Dean*

Training and experience in industry during the day with technical and business studies at night approaches very closely the co-operative course offered to the day students. All departments have planned certificate courses especially designed to fit students for greater service in industry. Registration by qualified adults may be made for all or any part of these planned certificate courses.

*SCHEDULE OF ENGINEERING CLASSES

Semester	Subject	Rec. or Lab. Hours	Days	Hours	Room
1-2	Engineering Drawing, ME1e-2e	(3)	T.-Th.	8:00-9:30	E 41
1-2	Machine Drawing, M12-13e	(3)	M.-W.	8:00-9:30	E 41
1-2	Practical Mathematics, M1e-2e	(3)	T.-Th.	6:20-7:50	E 5
1-2	Practical Mechanics, M3e-4e	(3)	M. W.	6:20-7:50	E 5
1	Steam Boiler and Combustion	(2)	M.	8:00-10:00	E 20
2	Steam Engines and Turbines	(2)	M.	8:00-10:00	E 20
2	Gas & Oil Engines	(2)	Th.	5:50-7:50	E 41
1-2	Strength of Materials, Mu5e-6e	(2)	Th.	8:00-10:00	E 15
1-2	Industrial Electricity, 31e-32e	(3)	M.-W.	8:00-9:30	E 10
1-2	Advanced Industrial Electricity	(3)	T.-Th.	6:20-7:50	E 10
1-2	Electrical Laboratory 35e-36e	(3)	T.-Th.	8:00-9:30	E 10
1,2	Foremanship	(1½)	W.	8:00-9:30	E 32
2	Foremanship Problems	(1½)	W.	8:00-9:30	E 32
1	Industries	(1½)	W.	6:20-7:50	E 32
2	Industrial Economics	(1½)	W.	6:20-7:50	E 32
1-2	Surveying, Mule-2e	(3)	M.	8:00-10:00	E 34
1-2	Municipal Engineering, Mu13e-14e	(2)	W.	8:00-10:00	E 14
1-2	Elements of Radio	(3)	M.-W.	6:20-7:50	E 10

MACHINE DESIGN AND POWER CERTIFICATE COURSE

PROFESSORS GRIFFIN, GILMOUR, ASSISTANT PROFESSOR UPP, MR. WILSON

The purpose of the Machine Design and Power Course is to train students to become draftsmen and machine designers and to give a mechanical training that will be valuable to men engaged in various technical positions in industry.

Semesters	FIRST YEAR	Hours	Semesters	THIRD YEAR	Hours
1-2	Practical Mathematics, M1e-2e	6	1	Steam Boilers and Combustion	2
1-2	Engineering Drawing, ME1e-2e	6		M18e	2
			2	Steam Engines and Turbines,	2
				M19e	2
	SECOND YEAR		1	Machine Design, M17e	2
1-2	Practical Mechanics, M3e-4e	6	2	Gas and Oil Engines, M20e	2
1-2	Machine Drawing, M12e-13e	6	1-2	Strength of Materials, Mu5e-6e	4

M1e-2e. PRACTICAL MATHEMATICS. Both semesters. Three hours each semester.

The fundamentals of arithmetic, algebra, geometry and trigonometry, in solving engineering problems. Special emphasis is laid on mensuration, solution of algebraic equations and triangles. T., Th., 6:20-7:50.

* See page 165 for explanation of abbreviations.

M3e-4e. PRACTICAL MECHANICS. Both semesters. Three hours each semester.

An elementary course in mechanics, the study of forces acting on bodies at rest and in motion. Stresses in simple trusses and cranes. Transmission of power by machines, loss of useful energy through friction and the efficiency of various mechanical devices. Prerequisite, Practical Mathematics M1e-2e. M., W., 6:20-7:50.

ME1e-2e. ENGINEERING DRAWING. Both semesters. Three hours each semester.

Selection, care and use of instruments; exercises in lettering, sketching and mechanical drawing; orthographic projections, isometric and oblique drawing. T., Th., 8:00-9:30.

M12e-13e. MACHINE DRAWING. Both semesters. Three hours each semester.

Detail and assembly drawings of machine parts; elementary mechanism and machine design. M., W., 8:00-9:30.

M17e. MACHINE DESIGN. First semester. Two hours.

Construction of machine parts; complete design of a simple machine. Prerequisite, M12e-13e. Th., 5:50-7:50.

M18e. STEAM BOILERS AND COMBUSTION. First semester. Two hours.

Types of steam boilers; brief survey of combustion of fuels. M., 8:00-10:00.

M19e. STEAM ENGINES AND TURBINES. Second semester. Two hours.

Theory and operation of steam engines, steam turbines and their auxiliaries. M., 8:00-10:00.

M20e. GAS AND OIL ENGINES. Second semester. Two hours.

Design and operation of modern types of gasoline and oil engines; automotive and airplane engines. Th., 5:50-7:50.

MUNICIPAL ENGINEERING CERTIFICATE COURSE

PROFESSOR DURST, ASSISTANT PROFESSOR BULGER

The Municipal Engineering Course has been prepared primarily for young men employed by the various service departments of the city, county, and state, and for those who desire to enter such work. Men who are unable to take a regular college degree course, can in this way prepare themselves for positions in the highway, sewer, and water departments. All of the equipment of the engineering college is available to students in the course, including all surveying equipment, and testing machines for tension, compression and torsion. A complete set of laboratory equipment is used for testing of concrete.

Semesters	FIRST YEAR	Hours	Semesters	THIRD YEAR	Hours
1-2	Surveying, Mu3e-4e	6	1-2	Strength of Materials, Mu5e-6e	4
1-2	Practical Mathematics, M1e-2e	6	1	Concrete Laboratory, Mu9e (1931-32)	
			2	Reinforced Concrete, Mu10e (1931-32)	
1-2	Practical Mechanics, M3e-4e	6	1-2	Municipal Engineering, Mu13e- 14e	4
1-2	Engineering Drawing, ME1e-2e	6			

Mu1e-2e. SURVEYING. Both semesters. Three hours each semester. Lectures, problems and field work. Use of the tape, level, and transit. Computing areas, note-keeping, and mapping. Saturday afternoon will be devoted to field work from October 4 to November 8. In the second semester topographic surveying, profiles, contours and plane surveying are studied. Plane table work will be given. Field work will start April 25 and end May 22. M., 8:00-10:00.

Mu5e-6e. STRENGTH OF MATERIALS. Both semesters. Two hours each semester.

Stresses and deformations produced by tension, compression, and shear; riveted joints, elementary combined stresses and strains; tension; shear and moment diagrams; stresses and deflections of statically determinate beams. Classroom work in statically indeterminate beams; combined axial and bending loads; eccentric loads, and columns. Laboratory work in compression, tensile, torsion, and flexural tests. Th., 8:00-10:00.

Mu9e. CONCRETE LABORATORY. First semester. Two hours.
Given in 1931-32.

Mu10e. REINFORCED CONCRETE. Second semester. Two hours.
Given in 1931-32.

Mu13e-14e. MUNICIPAL ENGINEERING. Both semesters. Two hours each semester.

A brief course covering work in highways, sewer design, water supply, city planning, and the economics of city government. W., 8:00-10:00.

INDUSTRIAL ELECTRICITY CERTIFICATE COURSE

PROFESSOR WALTHER, MR. SMITH

Workers on electrical maintenance and construction work need a better knowledge of electrical principles for advancement. The making and interpretation of standard drawings explaining electrical construction, the designing of electrical machinery and appliances supplemented with the necessary knowledge of electrical theory is given in this certificate course. It is designed to train men for the positions of electrical tester, electrical supervisor, electrical draftsman, technical salesman, engineering assistant, etc. Laboratory exercises are included. The University laboratory is well equipped with meters, various types of motors, generators, and appliances required.

Semesters	FIRST YEAR	Hours	Semesters	THIRD YEAR	Hours
1-2	Practical Mathematics M1e-2e....	6	1-2	Advanced Industrial Electricity	6
1-2	Engineering Drawing, ME1e-2e	6	1-2	Electrical Laboratory, 35e-36e....	6
SECOND YEAR					
1-2	Practical Mechanics, M3e-4e....	6			
1-2	Industrial Electricity, 31e-32e....	6			

31e-32e. INDUSTRIAL ELECTRICITY. Both semesters. Three hours each semester.

Fundamental principles of electrical science as applied to modern industry. Direct current circuits, machines and appliances. Theory of inductance, condensers, and storage batteries. M., W., 8:00-9:30.

33e-34e. **ADVANCED INDUSTRIAL ELECTRICITY.** Both semesters. Three hours each semester.

The theory of alternating current circuits and construction and operating characteristics of alternating current generators, motors, instruments, and transformers. Prerequisite, 31e-32e. T., Th., 6:20-7:50.

35e-36e. **ELECTRICAL LABORATORY.** Both semesters. Three hours each semester.

This course supplements Industrial Electricity 31e-32e, 33e-34e, and includes elementary exercises in electricity and magnetism and various practical tests on direct and alternating current machines and appliances. T., Th., 8:00-9:30.

71e-72e. **ELEMENTS OF RADIO.** Both semesters. Three hours each semester.

The theory of radio telephony, including broadcasting and receiving. Approximately two hours of each period will be devoted to laboratory work, which will include tests of oscillators, modulators, detectors, and amplifiers. Prerequisite, 31e-32e. M., W., 6:20-7:50.

INDUSTRIAL PRODUCTION CERTIFICATE COURSE

PROFESSOR ADENDORFF

The subjects assembled in this course attempt to formulate objectives of thought which will increase the effort of those responsible for the handling of the human element in industry through the scientific approach to organization problems. This training will aid foremen, production clerks, and junior factory department heads to meet the problems confronting them from day to day and to place them for promotion.

Semesters	FIRST YEAR	Hours	Semesters	THIRD YEAR (1932-33)	Hours
1	Foremanship	(1½)	1-2	Personnel Relations	(1½)
1	Industries	(1½)	1	Production Control	(1½)
2	Foremanship Problems	(1½)	1	Time, Motion and Fatigue	
2	Industrial Economics	(1½)		Study	(2)
	SECOND YEAR (1931-32)		2	Production Accounting	(1½)
1-2	Production Methods	(1½)	2	Rubber Production Methods....	(1½)
1	Purchasing	(1½)			
2	Materials Control	(1½)			

FOREMANSHIP. Either semester. One and one-half hours.

Study and discussion of methods of training workers on the job and more effective use of the foremen's time. Organization problems, job specifications, job analysis and training problems. W., 8:00-9:30.

FOREMANSHIP PROBLEMS. Second semester. One and one-half hours.

This course follows Foremanship and covers the problems that confront the foreman. Presentation of methods by students of the class. W., 8:00-9:30.

INDUSTRIES. First semester. One and one-half hours.

The interrelationship of industries, showing the results of specialization and interdependence among workmen and managers. Each student will chart the relationship of at least two industries. W., 6:20-7:50.

INDUSTRIAL ECONOMICS. Second semester. One and one-half hours.

Principles of economics as they apply to industrial organization and management. Prerequisite, Industries or equivalent. W., 6:20-7:50.

COMMERCE AND ADMINISTRATION

PROFESSOR LEIGH, ASSISTANT PROFESSOR MCKEE, MR. VAN METRE,
MR. TINKLEPAUGH, MR. HUNSICKER, MR. HALL, MR. LEWERS,
MR. AMMERMAN, MR. WOLFORD

AIM

Instruction is planned to meet the needs of the business man who desires a deeper knowledge of associated fields of business endeavor. All courses are designed to inform and prepare the student to handle practical situations. To accomplish this purpose, the instructors use text books, practical problems, reference and home work, and discussion. Any executive can profit from these studies.

"STUDY WITH A PURPOSE"

Plan your study; then study your plan. A definite goal brings the best results from your application. If you are interested in Management, Accounting, Marketing, or Retailing, you can concentrate your efforts in that field by taking the basic subjects and electing the remaining hours in the option of your major interest. Thirty-six hours are required for a certificate; and fifty-two hours for an advanced certificate.

The plans are flexible and allow the student to pursue studies which will assist him in his profession. Much of the work is applicable to a college degree. See the regular college bulletin for requirements for degree.

*SCHEDULE OF CLASSES

Semester	Subject	Credits	Days	Hours	Room
1-2	Accounting, C21e-22e, Sec. A.....	3	M.-W.	6:00-7:50	E 13
1-2	Accounting, C21e-22e, Sec. B.....	3	M.-W.	8:00-9:50	E 13
1-2	Accounting, C21e-22e, Sec. C.....	3	T.-Th.	6:00-7:50	E 13
2	Preliminary Accounting.....(3)	3	M.-W.	6:20-7:50	E 13
1	Accounting, C22e.....	3	T.-Th.	8:00-9:50	E 13
1	Managerial Accounting, C23e.....	3	M.-W.	8:00-9:30	E 33
2	Advanced Accounting, C32e.....	3	M.-W.	8:00-9:30	E 33
1-2	Cost Accounting, C33e-34e.....	3	M.-W.	6:20-7:50	E 33
1-2	Auditing, C35-36e.....	3	T.-Th.	6:20-7:50	E 33
1-2	Financial Organization & Mgt.....	3	T.-Th.	6:20-7:50	O 21
1-2	Business Geography.....	3	T.-Th.	8:00-9:30	O 21
1-2	Business Org. & Mgt., C61e-62e.....	3	M.-W.	6:20-7:50	O 21
1	Planned Marketing.....	2	W.	8:00-10:00	O 21
1	Retailing 88e.....	2	M.	8:00-10:00	O 21
1	Advertising, 87e.....	3	M.-W.	8:00-9:30	K 22
2	Advertising Campaigns.....	3	M.-W.	8:00-9:30	K 22
1-2	Economic Dev. of the U. S.....	3	T.-Th.	8:00-9:30	B 32
1-2	Salesmanship.....	1½	M.	6:20-7:50	K 22
1-2	Business Law, C40e-41e.....	2	Th.	8:00-10:00	E 34
1-2	Business Facts & Forecasting.....	3	T.-Th.	6:20-7:50	E 34
1	Real Estate Practice.....	1½	W.	6:20-7:50	E 15
1	Real Estate Appraisals Institute.....	3	W.	8:00-9:30	E 15
2	Real Estate Appraisals.....	1½	W.	6:20-7:50	E 15
2	Real Estate Selling Institute.....	3	W.	8:00-9:30	E 15
2	Statement Analysis.....	2	W.	5:50-7:50	E 15

COMMERCE CERTIFICATE COURSES

To enable students to prepare themselves in some particular field of business endeavor the Commerce department is offering certificate courses in Accounting, Marketing, Advertising, Financial and Industrial Management. These courses contain only the fundamentals necessary for a thorough working knowledge in the given fields, but they give the student a planned program of study, which will assure definite accomplishment and progress toward a chosen goal.

* See page 165 for explanation of abbreviations.

ACCOUNTING CERTIFICATE COURSE

This course is for the student preparing for a career in professional or industrial accounting. It is thorough, comprehensive and practical. The student or the practicing accountant will find in this series of courses a study plan suited to his needs. The financial, statistical, and managerial information so essential to the modern accountant. The Advanced Certificate Course prepares for professional accounting as far as theory and education are related to the professional practice.

Semester	FIRST YEAR	Sem. Cr.	Semester	THIRD YEAR	Sem. Cr.
1-2	Accounting, C21e-22e	3	1-2	Cost Accounting, C33e-34e	3
1	Public Speaking	2	1-2	Principles of Economics, A1e-2e....	3
2	Rhetoric A1e	3	FOURTH YEAR		
	or		1-2	Auditing, C35e-36e	3
2	Business English	2	1	Business Law, 40e	2
SECOND YEAR					
1-2	Accounting, C23-32e	3	2	Business Correspondence, S13e....	2
1-2	Bus. Org. & Mgt.	3	1	Income Tax	1
			2	C. P. A. Review	1

The Certificate is issued on the completion of three years of work; advanced certificate is issued upon the completion of the fourth year.

C21e-22e. ACCOUNTING. Both semesters. Three credits each semester. Accounting details of business management; recording of such transactions as acquisition of assets, borrowing of money, incurring of expenses, making of purchases and sales, issuing of stock and bonds, and the amortization of bond premium and discount. Bookkeeping principles are mastered in practice sets of books. Three sections. M., W., 6:00-7:50; M., W., 8:00-9:50; T., Th., 6:00-7:50.

PRELIMINARY ACCOUNTING. Second semester. Three hours. This course is to acquaint students with the fundamentals of bookkeeping and of business transactions. The use of modern business forms and modern machine equipment as applied to office management is fully explained through examples and class use. The course enables the student without previous experience or training to enter C21e. M., W., 6:20-7:50.

C23e. MANAGERIAL ACCOUNTING. First semester. Three credits. This course summarizes, develops and analyzes accounting procedure. Financial statements are studied intensely. A concise working knowledge of more advanced accounting used in determining administrative, credit and expansion policies. M., W., 8:00-9:30.

C32e. ADVANCED ACCOUNTING. Second semester. Three credits. In addition to the text, problems are used to illustrate the balance sheet and the profit and loss statement, analysis of profits, application of funds, capital expenditures and depreciation policies, determination of cost for inventory valuations, installment accounts, etc. M.-W. 8:00-9:30.

C33e-34e. COST ACCOUNTING. Both semesters. Three credits each semester. Methods of collecting costs of materials, labor and burden, and incorporating them into the books of account; distributing burden costs and methods of cost control. M.-W. 6:20-7:50.

C35e-36e. AUDITING. Both semesters. Three credits each semester. Investigations are made of special branches of industry such as banks, municipalities, and public utilities to fully equip the student with modern methods of audit procedure and analysis. T., Th., 6:20-7:50.

C60e-63e. BUSINESS ORGANIZATION AND MANAGEMENT. Both semesters. Three credits each semester.

A proper perspective of the business organization. Various departments and their functions. Class work, problems, and plant trips. Organization of a business; personnel management; the administration and carrying out of company relations are discussed and analyzed by conference and case method. M., W., 6:20-7:50.

MANAGEMENT CERTIFICATE COURSE

The forces of large-scale industry—finance, sales, advertising, purchasing, production—are directed, maintained and controlled by skilled specialists. Each phase of business is becoming a profession. The aspirant is required to speak and write accurately, to know the fundamental principles of economics and organization underlying business, and to use the tools of accounting and statistics. In addition, success in each field demands a fund of special knowledge. The various management options attempt to supply this special knowledge.

INDUSTRIAL MANAGEMENT acquaints the student with the cost, purchasing, and personal problems of the factory.

MARKETING MANAGEMENT aims to equip the student with the knowledge of research, market planning, and advertising necessary to plan effectively and carry out any industrial or retail selling project. Men wishing to enter selling, retailing, advertising, or market research should finish this option.

FINANCIAL MANAGEMENT is planned to prepare for industrial finance or banking.

PURCHASING MANAGEMENT is intended to give the student something of the scope of importance of purchasing management.

Semester	FIRST YEAR	Sem. Cr.	MARKETING MANAGEMENT	Sem. Cr.
1	Public Speaking	2	OPTION	
2	Rhetoric, A1e	3	Marketing (1931-32)	
	or		Marketing Problems (1931-32)	
2	Business English	2	1 Salesmanship	1½
1-2	Business Organization & Mgt.	3	1 Retailing, C88e	2
			1 Advertising, C88e	3
			2 Advertising Campaigns, 94e	3
	SECOND YEAR		FINANCIAL MANAGEMENT	
1-2	Principles of Economics, A1e-2e....	3	OPTION	
1-2	Accounting	3	1-2 Financial Org. and Mgt.	3
			Credits & Collections (1931-32)	
	THIRD YEAR		2 Investments	3
1-2	Bus. Facts & Forecasting	3	Budgets (1932-33)	
1	Business Law, C40e	2	Problems in Finance (1932-33)	
1.2	Business Correspondence, S13e....	2	PURCHASING MANAGEMENT	
			OPTION	
	FOURTH YEAR		2 Purchasing (1931-32)	2
	INDUSTRIAL MANAGEMENT		2 Products & Prices (1931-32)	2
	OPTION		1 Marketing (1931-32)	2
1	Industrial Management	2	Materials Control (1931-32)	2
1-2	Cost Accounting, C33e-34e	3	1-2 Business Geography	3
	Purchasing (1931-32)		Traffic Management (1931-32)....	2
1	Planned Marketing	2		
	Personnel Relations (1932-33)			

C88e. RETAILING. First semester. Two credits. The development, types and significance of the various retail institutions. The best practice of merchandising display and retail selling and the coordination of consumer needs and retail buying. M., 8:00-10:00.

20e. BUSINESS GEOGRAPHY. First semester. Three credits.
The products of trade, the factors that make for exchange and intercourse between nations, and trade channels are studied. A practical course for business men. T., Th., 6:30-8:00.

C87e. ADVERTISING. First semester. Three credits.
Principles and practices of advertising; market plans; appeals; advertisement writing; constructive criticism. Lectures are given by outside business and advertising specialists. M., W., 8:00-9:30.

C94e. ADVERTISING CAMPAIGNS. Second semester. Three credits.
An advanced course. The principles established in Advertising C87e will be more intensely treated and the student will work out an advertising plan, and complete layouts and copy for a particular product. Media will be selected, copy scheduled, and promotion activities drawn up. M., W., 8:00-9:30.

C12e. ECONOMIC HISTORY OF THE UNITED STATES. Both semesters. Three credits each semester.
The industrial development of the American people; exploration and settlement; territorial acquisition; land policies; growth of commerce; crises, industrial combinations and conservation; development of banking institutions and railroad systems. T., Th., 8:00-9:30.

SALESMANSHIP. Either semester. One and one-half credits.
Economic need of selling, the selling process, and the preparation of sales, talks and plans; problems from actual sales experience, laboratory practice. M., 6:20-7:50.

C41e-42e. BUSINESS LAW. Both semesters. Two credits each semester.
Contracts and Agency—contractual relationships; elements of a valid and binding contract; rights and obligations of the parties; the avoidance or discharge; appointment, duties and powers of an agent. *Sales and Negotiable Instruments*—rights of the parties to a sale; the Uniform Sales Act; negotiable paper; the rights and obligations of the maker, endorsers, and holders, for value; the Uniform Negotiable Instruments Act. Th., 8:00-10:00.

57e-58e. BUSINESS FACTS AND FORECASTING. Both semesters. Three credits each semester.
Collection of business facts, their analysis, interpretation, and use. Interpretation of sales, collection, general market information and use of agency services and business barometers. A study is made of the business cycle; individual businesses are analyzed; indexes of price movements or trade. T., Th., 6:20-7:50.

72e-73e. FINANCIAL ORGANIZATION AND MANAGEMENT. Both semesters. Three credits each semester.
The development of a sound money system, use of credit instruments, the rise of a banking system, and the relation of the financial organizations to the business man. The economics of finance; procuring capital, its application, use and control. T., Th., 6:20-7:50.

ASSOCIATION COURSES

The following Associations are co-operating with the Evening Session through their educational committees:

THE AKRON ADVERTISING CLUB

Advisory Committee: Earl E. Humphrey, Manager, Ad-Type Service, Inc., President of the Akron Advertising Club; Fred W. Danner, President, Akron Typesetting Co., Secretary of the Akron Advertising Club; Glenn L. Smith, Central Depositors Bank, Chairman of the Educational Committee of the Akron Advertising Club.
See the Marketing Management Certificate Course.

THE AKRON PURCHASING AGENTS ASSOCIATION

Advisory Committee: Wesley O. Hollister, Davey Tree Expert Co., President; Maxwell P. Boggs, University of Akron, Secretary; M. R. Klein, B. F. Goodrich Co. Chairman of Educational Committee; W. D. Gohr, Firestone Tire & Rubber Co.; Albert Johnson, Hardware & Supply Co.
See Purchasing Management Certificate Course.

THE AKRON REAL ESTATE BOARD

Advisory Committee: Fred E. Smith, President; C. K. Traxler, Secretary; C. W. Hall, Chairman of the Educational Committee; Forrest Myers, F. S. Goehring, W. G. Jenkins, E. L. Marting, D. W. Stevenson, Irving Klug, Harold Spaght.

THE AKRON REAL ESTATE BOARD CERTIFICATE COURSE

Required Subjects in logical order to be taken:	Credits
Real Estate, 1e	1½
Economics, 1e	3
Real Estate Selling Institute	(1)
Growth of Cities	1½
Real Estate Financing, 3e	1½
Real Estate Appraisals, 4e	1½
Public Speaking, 10e	2
Business Law 1, 40e	2
Real Estate Law, 43e	2
Business Correspondence 55e	2
Advertising, 87e	2
Salesmanship	1½
Electives approved by Head of Department	8
	Total 30

1e. FUNDAMENTALS OF REAL ESTATE PRACTICE. First semester. One and one-half credits.

Land and its use; history of land tenures and laws; the growth of cities; zoning and building regulations, subdividing and elementary appraisals. W., 6:20-7:50.

4e. REAL ESTATE APPRAISAL. Second semester. One and one-half credits. A study of real estate values; appraisals such as improvements, income and leased properties, plottage, irregular lots, depreciation and obsolescence, and amortization of building costs sensing the market. Actual appraisals are made. W., 6:20-7:50.

ELEMENTARY APPRAISALS INSTITUTE. First semester. No credit. Ten weeks.

REAL ESTATE SELLING INSTITUTE. Second semester. Ten weeks. No credit.

AKRON LIFE UNDERWRITERS

Advisory Committee: John H. Geer, President; W. L. Hammerbeck, Secretary; J. I. Thompson, Chairman of the Educational Committee; C. E. Way, L. L. Snyder, Committee Secretary.

Plans are being made for the continuation of the courses of study started in the 1930 Summer Session which lead to the C. L. U. degree for life underwriters.

Two courses were offered in the Summer Session of 1930 as follow:

THE ECONOMICS OF LIFE INSURANCE: Common risks; economic basis of life insurance; monetary importance of life values; appraisal of life values; need for scientific treatment of the life values; principles of corporation finance; capitalization of life values; depreciation of life values—the use of sinking funds and emergency funds; life insurance as property insurance; liquidation of values; promotion of personal endeavor through insurance; creation of personal estates; creation and maintenance of personal estate; creation and maintenance of credit; promotion of life conservation; life insurance as a life will; philanthropy; re-organization of principles retained for the study.

THE PRINCIPLES OF INSURANCE SALESMANSHIP: Fundamentals of human reactions applied to the salesman and his clients; basis of life insurance; problems in types of life insurance; corporate structure of the insurance business; prospects and the problem of contact; selling the interview and getting the facts; preparing the plan; completing the plan.

Special Recruits Institute, Principles and Practice of Life Insurance will be given in the Evening, fall and winter of 1930-31.

Special C. L. U. Coaching Institute will be given in late afternoons of fall and winter of 1930-31.

SECRETARIAL SCIENCE

MR. DOUTT, MISS FLINT, MRS. SLOAN, MISS COHEN

*SCHEDULE OF CLASSES

Semester	Subject	Credits	Days	Hours	Room
1,2	Secretarial Duties, S3e	3	T.-Th.	6:20-7:50	C 9
2	Office Management, S10e	3	T.-Th.	6:20-7:50	E 15
1,2	Business English	2	W.	5:50-7:50	E 14
1	Business English, Sec. B	2	W.	8:00-10:00	B 15
1,2	Business Correspondence	2	W.	5:50-7:50	E 34
1,2	Shorthand, S23e-24e	3	M.-W.	6:20-7:50	C 9
2	Office Management, S10e	3	T.-Th.	6:20-7:50	E 15
2	Typing	1	M.-W.	8:00-9:30	C 9

PURPOSE

The courses of study offered in the fields of Secretarial Service and Business English are designed chiefly for those whose work involves the use of letters, business reports, and other forms of English expression. All subjects listed in either of the certificate courses may be applied also toward the regular four-year degree in Secretarial Science, information concerning which will be found in the bulletin of the College of Engineering and Commerce.

THE PRIVATE SECRETARY'S COURSE

The Private Secretary's Certificate Course is intended for stenographers and private secretaries who wish to perfect themselves in their work and who desire to prepare for greater responsibilities. For entrance, students need only to have completed a standard course in shorthand theory and the equivalent of the usual high school or business college work in typewriting. Modern laboratory equipment in Secretarial Science is available, including the chief types of calculating machines and alphabetic, numeric, geographic, automatic, and subject systems of filing.

Semester	FIRST YEAR	Sem. Cr.	Semester	THIRD YEAR	Sem. Cr.
1-2	Shorthand, S23e-24e	3	1	Business Correspondence	2
1	Business English	2	2	Office Management, S10e	3
2	Typing, S34e	(2)	1,2	Approved Elective	3
SECOND YEAR			Minimum total of credits required for the certificate, 32.		
1	Shorthand, S26e	3			
1-2	Economics	3			
	or				
1-2	Accounting, C21e-22e	3			

* See page 165 for explanation of abbreviations.

GENERAL OFFICE COURSE

The General Office Certificate Course is designed to develop facility in the use of the English language in meeting business situations, to acquaint the student with the problems incident to modern office management, and to provide additional background material of value in preparing for larger opportunities.

Semester	FIRST YEAR	Sem. Cr.	Semester	THIRD YEAR	Sem. Cr.
1-2	Economics, A1e-2e	3	1	Business Organization, C60e	3
1	Business English, S11e	2	2	Office Management, S10e	3
2	Business Correspondence, S13e....	2	1-2	Approved Elective	2 or 3
SECOND YEAR					
1-2	Business Writing, S17e-18e	3	Minimum total of credits required for certificate, 32.		
1-2	Business Law, C40e-41e	2			
or					
1-2	Accounting, C21e-22e	3			

S3e. SECRETARIAL DUTIES. Either semester. Three credits.

Origin, nature, and scope of secretarial work; handling and answering of mail; securing needed information; preparation of itineraries, budgets, speeches, reports, and documents; proofreading; writing of minutes; indexing and filing; and time-saving machines. T., Th., 6:20-7:50.

S23e-24e. SHORTHAND. Both semesters. Three credits each semester.

After a brief review of Gregg theory, dictation practice begins with simple letters and articles, and proceeds through increasingly difficult material, designed to develop speed, and to convey a broad understanding of business terminology. Open to those who have completed a standard course in theory. M., W., 6:20-7:50.

S26e. SHORTHAND. First semester. Three credits.

Offered in 1931-32.

S11e. BUSINESS ENGLISH. Either semester. Two credits.

Those principles of standard English which apply specifically to various types of business writing are studied and illustrated. The aim is to establish, with material drawn from business, the fundamental principles a mastery of which will enable the student to use the English language with a greater degree of accuracy, fluency, and precision. W., 5:50-7:50 and W., 8:00-10:00.

S13e. BUSINESS CORRESPONDENCE. Either semester. Two credits.

An advanced course in writing of sales, credit, collection, adjustment and miscellaneous letters; the form and content of the various types of letters; the psychology underlying sales, collection, and other letters. Emphasis on accuracy and conciseness of expression. Prerequisite, Business English, Rhetoric, or approved business experience. W., 5:50-7:50.

S34e. TYPEWRITING. Second semester. One credit.

An advanced course designed for those who have completed the usual high school or business college work in this subject. M.-W., 8:00-9:30.

S10e. OFFICE MANAGEMENT. Second semester. Three credits.

Problems of the modern business office from the managerial viewpoint, including office planning, departmental organization, personnel, standardization of office tasks, etc. Prerequisite, Economics or approved business experience. T., Th., 6:20-7:50.

TEACHERS COLLEGE

W. J. BANKES, A. M., *Dean*

* SCHEDULE OF CLASSES

Semester	Subject	Credits	Days	Hours	Room
ART					
1-2	Structural Art 1	2	M.	6:30-9:30	PH
1-2	History of Art	2	M.	6:30-9:30	AI
1	Crafts 3	2	F.	6:30-9:30	PH
2	Crafts 4	2	F.	6:30-9:30	PH
1	Mediums 8	2	S.	8:00-11:00	PH
2	Design 2	2	S.	8:00-11:00	PH
1-2	Commercial Art 14-15	2	Th.	6:30-9:30	PH
1	Free Sketch 19	2	W.	6:30-9:30	PH
2	Home Planning 22	2	W.	6:30-9:30	PH
1-2	Still Life 9-10	2	F.	6:30-9:30	PH
1	Ktg.-Prim. Art 16	2	F.	6:30-9:30	PH
2	Marionettes 17	2	F.	6:30-9:30	PH
EDUCATION					
1	Junior High School	2	W.	5:50-7:50	C
2	School Law	2	W.	5:50-7:50	B 38
1-2	Personal Hygiene	2	W.	8:00-10:00	B 12
1-2	School Health	2	F.	8:00-10:00	B 15
1	History of Education	3	M.-W.	8:00-9:30	B 32
2	Educational Sociology	3	M.-W.	8:00-9:30	B 32
1-2	Story Telling 11-12	2	F.	8:00-10:00	B 25
1-2	Primary Methods	2	T.	5:50-7:50	B 32
1	Remedial Work in Reading	2	W.	5:50-7:50	K 22
2	Remedial Work in Arithmetic	2	W.	5:50-7:50	K 22
1	Lit. for the Int. Grades	3	T.-Th.	6:20-7:50	B 26
2	Language for Int. Grades	3	T.-Th.	6:20-7:50	B 26
1	Geography of Europe	2	Th.	5:50-7:50	B 32
2	Geography of Asia	2	Th.	5:50-7:50	B 32
MUSIC					
1-2	Elem. Harmony	2	W.	5:50-7:50	MH
1-2	History & Appreciation of Music	2	T.	7:30-9:30	MH
1-2	Public School Music Methods	2	F.	5:50-7:50	MH
1	Rhythm Band	2	Th.	5:50-7:50	MH
1-2	Orchestra	1	M.	5:50-7:50	MH
PSYCHOLOGY					
1-2	General Psychology	3	T.-Th.	8:00-9:30	B 37
1-2	Educational Psychology	2	F.	5:50-7:50	B 32
1	Child Psychology	2	F.	5:50-7:50	B 25
2	Psychology of the Exceptional Child	2	F.	5:50-7:50	B 25
1	Psychology of Religion	2	Th.	5:50-7:50	B 25
VOCATIONAL EDUCATION					
1	Phil. of the Gen. Cont. School	2	F.	2:00-4:00	Perkins
1	History and Phil. of Vo. Educa.	2	T.	4:00-6:00	HTS
1	Meths. of Tchg. Occu. Subjects	2	W.	4:00-6:00	Perkins
1	Meths. of Tchg. Ind. Arts Educa.	2	W.	4:00-6:00	K 22
1	Shop Management	2	Th.	4:00-6:00	K 22
2	Org. & Adm. of Vocational Educa.	2	F.	2:00-4:00	Perkins
GRADUATE COURSES					
1-2	Supervision of Instruction	2	F.	5:50-7:50	B 22
1	Educational Philosophy	2	W.	5:50-7:50	B 15
2	History of Phil. of Educa.	2	W.	5:50-7:50	B 15
1-2	Seminar	2	T.	5:50-7:50	K 22
2	Supervision of Student Teaching	2	W.	5:50-7:50	B 38
1	Advanced Psychology	2	T.	5:50-7:50	B 25
2	Psychological Systems	2	T.	5:50-7:50	B 25
SATURDAY COURSES					
1	Elem. School Admn. (Graduate)	2	S.	8:00-10:00	SS113
2	Sec. School Admn. (Graduate)	2	S.	10:00-12:00	SS212
1	Great Teachers	2	S.	10:00-12:00	SS113
2	Comparative Education (Graduate)	2	S.	10:00-12:00	SS113
1	Mental Hygiene (Graduate)	2	S.	10:00-12:00	SS213
2	Abnormal Psychology (Graduate)	2	S.	10:00-12:00	SS213
1	Psychology of Character Traits (Graduate)	2	S.	8:00-10:00	SS112
2	Educational Statistics (Graduate)	2	S.	8:00-10:00	SS112
1	Tests and Measurements, Elem.	2	S.	10:00-12:00	SS112
2	Psych. of H. S. Subjects (Graduate)	2	S.	10:00-12:00	SS112
1	Principles of Geography 9	2	S.	8:00-10:00	SS212
2	Geography of America, 10	2	S.	8:00-10:00	SS212

* See page 186 for explanation of abbreviations.

ART

Mrs. BARNHARDT, Miss CABLE, Mr. POND, Miss BARKER

The following certificate courses are planned for students wishing to take consecutive work along definite lines of study. For art teachers courses leading to certification or degree, see Teachers College Bulletin.

FINE ARTS CERTIFICATE COURSE		ART APPRECIATION CERTIFICATE COURSE	
	Credits		Credits
Structural Art, 1	2	History of Art, 27	2
Technique of Mediums, 8	2	History of Art, 28	2
Free Sketch, 19	2	Structural Art, 1.....	2
Clay Modeling, 18	2	Design, 2	2
Still Life, 9	2	Costume, 6	2
Still Life, 10	2	Stage Costume, 20	2
Pose, 11	2	Interior Decoration, 7	2
Illustration, 12	2	Interior Decoration, 21	2
Illustration, 13	2		
	18		16
ART DESIGN CERTIFICATE COURSE		STAGE DESIGN CERTIFICATE COURSE	
	Credits		Credits
Structural Art, 1	2	Structural Art, 1	2
Design, 2	2	Mediums, 8	2
Crafts, 3	2	Clay Modeling, 18	2
Crafts, 4	2	Crafts, 3	2
Crafts, 5	2	Marionettes, 17	2
Clay Modeling, 18	2	Stage Costume, 20	2
Marionettes, 17	2	History of Art, 27	2
Costume, 6	2	History of Art, 28	2
Interior Decoration, 7	2		
Interior Decoration, 21	2		16
	20		

T1e. STRUCTURAL ART. Either semester. Two credits.
The basic principles of design, color and composition. Prerequisite for all advanced art courses. M., 6:30-9:30.

T2e. DESIGN. Second semester. Two credits.
The adaptation of units of design to definite spaces, and the consideration of the limitations of various mediums. Prerequisite for Craft Courses. Sat., 8:00-11:00.

T3e. CRAFTS. First semester. Two credits.
Design applied to textiles by various processes. Prerequisite, Design T2e. F., 6:30-9:30.

T4e. CRAFTS. Second semester. Two credits.
Design applied to leather, baskets, hooked rugs, and wood. Prerequisite Design T2e. F., 6:30-9:30.

T8e. TECHNIQUE OF VARIOUS MEDIUMS. Second semester. Two credits.
A series of progressive lessons using pencil, pen and ink, brush and ink, crayon, water color, and oil. Sat., 8:00-11:00.

T14e-15e. COMMERCIAL ART. Both semesters. Two credits each semester.
A course embracing the principles of advertising in connection with page arrangement, magazine, newspaper, and poster layout. Standard forms of lettering and adaptation of material to reproducing processes. Th., 6:30-9:30.

T19e. FREE SKETCH. First semester. Two credits.
Line drawing of common objects. The applications of simple perspective rules. Building up of figures. W., 6:30-9:30.

T20e-T21e. HISTORY OF ART. Both semesters. Two credits each semester. A comprehensive history of European painting, sculpture and architecture from the earliest time to the Italian Renaissance. Second semester: the history of European and American painting, sculpture and architecture from the Renaissance to the present time. M., 6:30-8:30.

T10e. STILL LIFE. First semester. Two credits. Free-hand drawing of common objects and natural forms, using various mediums. A thorough training in perspective. F., 6:30-9:30.

T18e. KINDERGARTEN PRIMARY ART. Second semester. Two credits. This course is preparatory work for teachers in kindergarten and primary grades. Projects in clay, paper, cardboard, wood, raffia, reed and textiles. F., 6:30-9:30.

T17e. MARIONETTES. Second semester. Two credits. Designing and making marionette figures. Appropriate backgrounds and stage properties. Mechanical devices used in operation. F., 6:30-9:30.

T22e. HOME PLANNING. Second semester. Two credits. A study of types of houses. Making of floor plans and elevations of a definite house. Application of principles of design and color as related to home furnishings. History of furniture. W., 6:30-9:30.

EDUCATION

ASSISTANT PROFESSORS EVANS, HOOVER AND SMITH, MR. SNYDER,
MISS KEMLER, MR. ERWINE

T17e. JUNIOR HIGH SCHOOL. First semester. Two credits. The development of the junior high school idea; its functions and organization; problems of counseling guidance, and student activities: curriculum development and reconstruction; problems of technique and administration. W., 5:50-7:50.

T12e. SCHOOL LAW. Second semester. Two credits. History of educational legislation in Ohio, attendance laws, teacher certification, contracts, laws relating to administration and supervision, duties and responsibilities of school boards, superintendents and teachers, laws relating to special instruction, sanitation and fire drills. W., 5:50-7:50.

T31e. PERSONAL HYGIENE. Either semester. Two credits. A scientific background for the various health activities of the school and the community; the important problem of the care of the body from both the individual and social viewpoints. W., 5:50-7:50.

T29e-30e. SCHOOL HEALTH. Both semesters. Two credits each semester. School sites, drainage, sanitation; beautifying, efficiency; school furniture; gymnasium; health problems. Teaching health, needs, programs, organization, tests, materials. F. 8:00-10:00.

T3e. HISTORY OF EDUCATION IN THE UNITED STATES. First semester. Three credits. A study of the European background of American education and of the development of the public school system in the United States. M., W., 8:00-9:30.

T13e. EDUCATIONAL SOCIOLOGY. Second semester. Three credits.

The data and principles derived from a study of social relationships are applied in educational problems. M., W., 8:00-9:30.

T11e-12e. STORY TELLING. Both semesters. Two credits each semester.

Values of story-telling; story interests of young children; classification; selection; preparation; telling stories; returns from children. Story groups; story program for the year for kindergarten, first, second and third grades. F., 8:00-10:00.

T4e-5e. PRIMARY METHODS. Both semesters. Two credits each semester.

The kindergarten-primary child; the primary classroom; equipment; the daily program; group activities; seat work; testing and classification; the teaching of language. The teaching of arithmetic; reading; phonics; spelling; handwriting. Two hours of observation. T., 5:50-7:50.

T30e. REMEDIAL WORK IN READING. First semester. Two credits.

A study of recent developments for the improvement of instruction. Class discussions involve psychological principles governing the learning process in reading, diagnostic work, type difficulties, individual cases and remedial instruction. For elementary teachers and supervisors. W., 5:50-7:50.

T31e. REMEDIAL WORK IN ARITHMETIC. Second semester. Two credits.

Emphasis is placed on the psychology of teaching Arithmetic and the use of remedial methods. A careful analysis will be made of the common errors which pupils make. W., 5:50-7:50.

T15e. LITERATURE FOR INTERMEDIATE GRADES. First semester. Three credits.

Appreciation, the appreciation lesson, method, teacher's equipment, reading lists, reports, book reviews, devices, creative returns, value of literature in the grades, interest in reading, oral and silent reading, objectives, motivation, extensive vs. intensive reading, reading vs. literature, value of literature, type, economy of silent reading. T., Th., 6:20-7:50.

T6e. LANGUAGE FOR INTERMEDIATE GRADES. Second semester. Two credits.

A study of the principles underlying the teaching of language; distribution of language for the fourth, fifth, and sixth grades; the laboratory method of teaching; objectives; types of language activities; media, oral and written expression; mechanics. T., Th., 6:20-7:50.

T9e. PRINCIPLES OF GEOGRAPHY. First semester. Two credits.

A study of natural environment in relation to life. The course will professionalize the subject matter by presenting methods of instruction with the content of the subject matter. Sat., 8:00-10:00.

T10e. GEOGRAPHY OF AMERICA. Second semester. Two credits.

Natural resources and climatic features as they influence life forms, industries, cities and chief historic events in North and South America. Sat., 8:00-10:00.

PUBLIC SCHOOL MUSIC

MISS RIDER, MR. CHAPMAN, MR. ENDE

T1e-2e. ELEMENTARY HARMONY. Both semesters. Two credits each semester.

This study is carried on as classroom work and includes the rudiments of music in detail, Intervals, Triads; chords of the Seventh, and Thorough Bass. Written and oral exercises on all subjects. W., 5:50-7:50.

T35e-36e. HISTORY AND APPRECIATION OF MUSIC. Both semesters. Two credits each semester.

First semester: Music of primitive nations; music and instruments of the Bible; music of the early Christian Church; music and Renaissance; Polyphonic Age; opera and oratorio; periods of Bach, Handel, Haydn and Mozart. Second semester: Advent of Beethoven; rise of Virtuosity and Romanticism; Wagner and the new operatic tendencies; American musical development and modern tendencies. T., 7:30-9:30.

T11e-12e. PUBLIC SCHOOL MUSIC METHODS. Both semesters. Two credits each semester.

First semester: Material of kindergarten and primary grades; methods of teaching; music appreciation. Second semester: Intermediate and upper grades; methods; music appreciation. F., 5:50-7:50.

ORCHESTRA. Both semesters. This class is open to all Evening Sessions students without cost but if credit is desired the student must pay the one hour fee. Those students who wish to register for orchestra only must pay the regular fee and will receive credit. M., 6:00-8:00.

RHYTHM BAND. First semester. Two credits.

A course in conducting rhythm with emphasis on the toy orchestra. Construction of a number of instruments is included. Th., 5:50-7:50.

PSYCHOLOGY

PROFESSOR HAYES, PROFESSOR KUHNES, ASSOCIATE PROFESSOR WOOD

T1e. GENERAL PSYCHOLOGY. Either semester. Three credits.

A course for the preparation of students for a general understanding of the feelings and emotions, motives and reactions of themselves and others, to prepare for advanced courses. T., Th., 8:00-9:30.

T3e. EDUCATIONAL PSYCHOLOGY. Both semesters. Two credits each semester.

For students who wish to meet state certification requirements and who have had no training in educational psychology. Attention to the native equipment of children and to the learning process. F., 5:50-7:50.

T4e. CHILD PSYCHOLOGY. First semester. Two credits.

Pre-school child and early elementary grades; original tendencies; play attitudes and educational application; application of instinctive urges in training and control. Prerequisite, T1e. F., 5:50-7:50.

T5e. PSYCHOLOGY OF THE EXCEPTIONAL CHILD. Second semester. Two credits.

Case studies of deviates; methods of treatment; methods of diagnosis; neural instability, precocity, backwardness, and feeble-mindedness. Prerequisite, T1e. F., 5:50-7:50.

T6e. TESTS AND MEASUREMENTS FOR ELEMENTARY SCHOOLS. First semester. Two credits.

A course for the purpose of acquainting teachers with the uses of tests and testing, understanding the new type tests, and the interpretation of test results. Laboratory fee of \$2.00 is charged. Sat., 10:00-12:00.

INDUSTRIAL ARTS AND VOCATIONAL EDUCATION

ASSISTANT PROFESSOR GREENLY, MR. CONNER, MR. MOORE

T16e. SHOP MANAGEMENT. Second semester. Two credits.

Study of housing conditions, factors governing installation of equipment; selection of equipment; problems of shop maintenance; individual and quantity methods of production; general conduct of the shop. Th., 4:00-6:00. (Canton, M., 4:00-6:00. Youngstown, T., 4:00-6:00.)

T20e. PHILOSOPHY OF THE GENERAL CONTINUATION SCHOOL. First semester. Two credits.

Various studies and surveys to establish the need for civic, social and economic training. Survey of the purposes of education as carried on in our public schools. Investigation of the early withdrawal of employed youth from school as a foundation upon which to base readjustments of the curriculum. F., 2:00-4:00. (Canton, M., 9:00-11:00 a. m. Continuation School; Youngstown, T., 10:00-12:00 a. m., Administration Bldg.)

T26e. METHODS OF TEACHING OCCUPATIONAL SUBJECTS. Second semester. Two credits.

Methods of instruction in occupational subjects; psychological principles developed; teaching devices examined in terms of analysis and organization of curricular content; teaching plans are required and their use explained and constructively criticised. Th., 4:00-6:00.

T2e. HISTORY AND PHILOSOPHY OF VOCATIONAL EDUCATION. Second semester. Two credits.

A brief survey of the development of vocational education. Historical and contemporary theories and their expression. The place of vocational education in a democracy. Apprenticeship under the guild system. Types of organization. State and federal aid. T., 4:00-6:00.

ORGANIZATION AND ADMINISTRATION OF VOCATIONAL EDUCATION. Second semester. Two credits.

State and local school organization, the Smith-Hughes Act, the State Plan, procedure in establishing and maintaining classes and instruction, cosmopolitan high schools, unit trade schools, part-time schools and classes in the industry. F., 2:00-4:00.

OBSERVATION AND PRACTICE TEACHING. First semester. Two credits.

Vital elements of a good recitation. Visiting of classes in a regular school, and group discussions. *Democratization* ✓
~~Approximately half of each recitation is given over to a demonstration.~~ East Liverpool, W., 4:00-6:00.

GRADUATE COURSES

T108e. ELEMENTARY SCHOOL ADMINISTRATION. First semester. Two credits.

The origin, meaning and function, financial support, organization and management of the American Elementary School. Sat., 8:00-10:00.

T109e. SECONDARY SCHOOL ADMINISTRATION. Second semester. Two credits.

The organization and administration of the high school and its relations to larger units of the school system; administration problems; high school organization; attendance; daily schedule; measuring results; class supervision, extra curricular activities and the teaching corps. Sat., 10:00-12:00.

T102e. GREAT TEACHERS. First semester. Two credits.

The historical development of education in the light of western civilization. Thesis: The historical development of some school subject. Sat., 10:00-12:00.

T105e. COMPARATIVE EDUCATION. Second semester. Two credits.

The educational philosophy and organization of United States, England, France, Germany, Italy, Australia, Canada, Danish countries, Russia, South America. Thesis: Educational philosophy or organization of some country compared with that of United States. Sat. 10:00-12:00.

MENTAL HYGIENE. First semester. Two credits.

Library assignments and class recitations. A study of the more efficient methods of learning, both from the pedagogic and hygienic bases. Sat., 10:00-12:00.

106. ABNORMAL PSYCHOLOGY. Second semester. Two credits.

Lectures, discussions and reports dealing with disorders of perception, association, memory, affection, volition, personality, judgment and action, with respect to their respective normal phenomena. Sat., 10:00-12:00.

T116e. THE PSYCHOLOGY OF CHARACTER TRAITS. First semester. Two credits.

An attempt is made to attack the problem of character training systematically and without the usual disastrous mixing of sentimentality and artificiality. Ideals and situations, trait actions and specific individual development are the subjects which receive particular attention. Sat., 8:00-10:00.

EDUCATIONAL STATISTICS

T109e. PSYCHOLOGY OF THE HIGH SCHOOL SUBJECTS. Second semester. Two credits.

Problems of growth and reaction of the high school pupil. The content and critical evaluation of the subjects usually found in the high school curriculum. Sat. 10:00-12:00.

1930 SUMMER SESSION

W. J. BANKES, A. M., *Dean of Teachers College, Director*

INTRODUCTORY STATEMENT

Educational ideals, methods of teaching, and the curriculum of the public schools have been continually modified to meet changing social and industrial conditions, and emphasis upon various subjects has changed to meet these conditions. The best interests of the schools require that all work in teacher training shall be of a character accepted without question by the leading universities of the country. This fact is of special importance when summer school work is considered.

The work done at the University of Akron is accepted by all leading universities. The work of the Summer Session has met the standards of the regular courses of the institution and courses for 1930 are planned so that students may continue the work begun. New students will find classes in practically all the departments of the institution. The two-year and three-year programs should appeal to all teachers who are not primarily interested in obtaining a degree in education. Summer Session courses enable teachers to complete programs of training in a short time.

All work done in the Summer Session is credited toward college degrees, and college students will have greater and better opportunities to take advanced courses in 1930. Graduate courses leading to the Master's degree in Teachers College are organized so that students may complete the work for this degree in Summer Sessions.

The State Department of Education recognizes the University of Akron as an institution for training teachers in the various departments of public school work. The completion of courses as outlined in Teachers College insures the issuance of state provisional and life certificates.

LOCATION

The University of Akron is located thirty-five miles from Lake Erie in the heart of the Portage Lakes district. Students desiring to combine opportunity for study with recreational advantages will find many lake resorts within easy reach of the University.

Akron is an industrial city furnishing opportunities for students to visit large factories. The greatest rubber factories in the world are located here and many students work part time in these factories.

GENERAL INFORMATION

The 1930 Summer Session will open June 23, and close August 1. Classes in each subject will be held every day except Saturday and Sunday. Examinations will be held at the close of the session. In Art, German and Folk Games double periods are required. The Trigonometry class will recite two periods per day. Three-hour courses will require

two periods per day for half the session. One-hour courses continue for three weeks only. Students may register for three weeks only in one-hour courses.

The principal object of the Summer Session is to furnish instruction to teachers and other persons who seek opportunities for training. Some courses are designed to meet the needs of collegiate students who wish to advance their standing or to make up deficiencies, and several courses are offered for graduate students.

CHARACTER OF INSTRUCTION

The courses maintain the standard of instruction which characterizes the work of the regular session. As far as possible the classes are taught by members of the University faculty. Additional instructors are selected because of special fitness for their work.

SELECTION OF COURSES

Teachers who are working toward the completion of the requirements for the state certificate should be careful to select their courses to this end. All other students should be certain that the courses selected fit the purpose in mind. The Director of the Summer Session should be consulted if any assistance is needed. Any subject not listed will be given if twenty students petition for the course.

For three-year, four-year and five-year courses see general catalog.

OUTLINE OF THE TWO-YEAR COURSE

Rhetoric 1	3 hrs.	Tests and Measurements	2 hrs.
Physical Education	2 hrs.	Story Telling	2 hrs.
Methods (in four subjects)	6 hrs.	Speech	2 hrs.
History of Education	3 hrs.	Personal Hygiene	2 hrs.
School Management	2 hrs.	Public School Music	4 hrs.
Principles of Education	3 hrs.	Psychology (including Educational Psychology)	5 hrs.
Probs. of Citizenship or American History	2 hrs.	Practice Teaching and Observation	7 hrs.
Art	4 hrs.		

Required, 49 hours. Electives, 15 hours. Total required, 64 hours, 16 of which must be earned in the University of Akron. Teachers who have credits from other standard colleges may have them transferred.

ACADEMIC CREDIT

No student will be permitted to take courses aggregating more than six credit hours, except by special permission of the Director and then the work shall not exceed seven hours. If eight weeks courses (given only in the Commerce department) are selected, the maximum is nine hours. A special course in Chemistry (nine weeks) permits eight hours. Hours have various meanings in different institutions. In the University of Akron thirty-two semester hours constitute a year's work.

Credit granted in the Summer Session will be accepted in the various colleges of the University. All courses are credited in the Teachers College. Those starred in the schedule on the last page are credited in Buchtel College of Liberal Arts. All students will receive certificates indicating the amount of work satisfactorily completed.

PRACTICE TEACHING

All student teaching of the Summer Session will be done in Wadsworth and Barberton schools. Students will not be required to do class work on the campus if they are enrolled for student teaching. All requests for student teaching must be made before June 1 with the understanding that the students first enrolled for teaching will be assigned first. If more students are enrolled than can be accommodated, notification will be given early in June. A deposit of \$10 is required with each enrollment. This deposit will be refunded if assignment is not made.

APPOINTMENT BUREAU

The director of the Summer Session is chairman of the Appointment Bureau of the University. Summer Session students may enroll for appointment without extra fee. Many students are placed in desirable positions each year.

ADMISSION AND ATTENDANCE

There are no formal examinations for admission, but students under 21 years of age must have completed a four-year high school course of study. The rules for admission to the regular day session apply also to summer students. The Summer Session will begin June 24 and carry out the schedule provided on the last page of this bulletin. No class is scheduled after one o'clock. Students have the afternoons for study and recreation.

Registration will take place in Room 38, Buchtel Hall, June 23, from 8 a. m. to 5 p. m. Any person registering after June 23 will be charged an additional late registration fee of \$1, except those who register for the last three weeks only. All late registrations must be passed upon by the Director of the Summer Session. Anyone wishing to enroll for the three weeks courses given by Mr. Proffitt or Mr. Cookson, will be permitted to do so.

No change of courses will be permitted without the consent of the Director and payment of a transfer fee of \$1. However, if any instructor is changed for courses advertised, students may transfer without paying the transfer fee. All fees, including both tuition and laboratory fees, must be paid to the Secretary of the University as a part of registration. Registration and payment of fees should be made in person on June 23, or by mail in advance of the opening of the session.

Refunds are made to students who must withdraw during the session as follows: First week, 80% of fees; second week, 60%; third week, 40%; fourth week, 20%; after fourth week, no refund.

TESTS

All students who have not already taken the Psychology tests required by the Ohio College Association will be required to take this test.

Students taking methods courses will be given diagnostic tests as prescribed by the State Department.

All students must take final tests offered in each class if credit is desired.

ASSEMBLY

All students not excused by the Director are required to attend Assembly exercises. Not more than one absence from Assembly will be permitted; otherwise deduction will be made from the number of credits earned, one-sixth of one credit hour for each additional absence. Assembly exercises will be held each Thursday at 11 o'clock in the Central High School Auditorium on Union street. The public is invited to attend all programs.

Special musical productions and other attractive features will be added to the following program:

- June 26—Address, Dr. Frank N. Freeman, University of Chicago.
- July 3—Akron Symphonic Orchestra.
- July 10—"Heightening the Morale of Teachers," Dr. E. E. Lewis, Department of School Administration, Ohio State University.
- July 17—Chalmers Art Trio.
- July 24—"Developing a Human Personality," Hon. William J. Cooper, U. S. Commissioner of Education.
- July 31—Program by the department of vocal and dramatic expression, directed by Miss Carita McEbright.

SPECIAL FEATURES

June 26 will be a red letter day of the Summer Session. Dr. Frank N. Freeman of the University of Chicago will hold a conference hour in the Spicer School Auditorium at 9:00 o'clock a. m. and will speak at the Assembly at 11:00. At 12:15 a luncheon will be held at the University Club. All students will be entitled to attend upon presentation of card received when enrollment is completed. A short after-dinner program will be presented and the afternoon turned into a get-acquainted meeting.

Dr. E. E. Lewis of Ohio State University will be present July 10 and in addition to the assembly address will speak in Spicer Auditorium at 9:00 o'clock a. m. His topic will be "Teacher Participation in Administration."

Honorable William J. Cooper, United States Commissioner of Education, will hold a conference in Spicer Auditorium at 9:00 a. m. July 24, using for his subject "Supervision in School Work." Following this conference he will speak at the assembly at 11:00 o'clock.

M. M. Proffitt, specialist from the United States Office of Education, will teach three-weeks courses the first half of the session. C. W. Cookson will teach three-weeks courses the last half of the session.

An eight-hour course in Chemistry covering freshman requirements will extend over a period of nine weeks.

Specialists will teach the Beacon, Aldine and the Newson Methods in Reading.

ANNUAL PICNIC

The regular annual summer picnic will be held Tuesday, July 15. This is always an enjoyable affair. Announcement of arrangements will be made at the assembly.

EXPENSES

A maintenance fee of \$5 per credit hour will be charged all students. Each course carries a statement of credits and it is easy for any student to determine the cost of the course. Attention is called to the late registration fee and additional laboratory fees as explained in the description of the courses. A student activity fee of \$2 will be charged each student in addition to the maintenance fee.

BOARD AND LODGING

The Director of the Summer Session has on file addresses of those who rent rooms with or without meals. These addresses will be furnished upon request.

UNIVERSITY BOOK STORE

All texts used in the various classes will be on sale at the University Book Store.

THE BUCHELITE

Summer Session issues of "The Buchelite," student newspaper of the University, are published by the class in journalism as a laboratory project.

PROGRAMS OF STUDY

Teachers who are planning the completion of regular two-year courses for state certificates may complete this work in Summer Sessions at the University of Akron and in addition receive college credit toward the degree if they care to continue college work. The Teachers College bulletin outlining courses may be had upon request. Many subjects taught in the Summer Session are also credited toward degrees in the other colleges of the University.

Students desiring to do graduate work will find opportunity to earn graduate degrees in summer sessions.

For any further information, address W. J. Bankes, Director of the Summer Session.

SUBJECTS OF INSTRUCTION

The building in which each class recites is indicated at the end of the course description according to the following system: B refers to Buchtel Hall; C to Curtis Cottage; S to Spicer School Building; P to Phillips Hall; O to Olin Hall. The number indicates the room in that building in which the class meets.

ART

19. **FREE SKETCH.** Two credits.
Pencil, crayon and charcoal drawing of common objects, emphasizing simple perspective and proportion and the building up of figures. Class meets daily from 7:15 to 9:25 in P-1. MISS FERRIS

18. **CLAY MODELING.** Two credits.
Modeled and incised panels and tiles; small figures; heads. Class meets daily from 10:45 to 12:55 in P-1. MISS FERRIS

BIOLOGY

2. **BIOLOGY.** Four credits.
One hour of lecture and three hours of laboratory work per day, devoted to a study of the animal kingdom principally, following the more primitive animals and plants studied in Biology 1. Biology 1 and 2 are prerequisites for all advanced courses in this department. A laboratory fee of \$4.00 is charged. Class meets daily from 7:15 to 11:45 in O-25. ASSISTANT PROFESSOR KRAATZ

CHEMISTRY

1-2. **GENERAL INORGANIC CHEMISTRY.** Eight credits.
This course is given for the students as a minor in the B. S. and A. B. courses and thus satisfies the requirements for these degrees. Class meets twice daily, at 7:15 and at 10:45, for recitation in K-22. Laboratory each day from 8:25 to 10:45. A laboratory fee of \$14.00 is charged. ASSISTANT PROFESSOR COOK

COMMERCE

20. **ECONOMIC GEOGRAPHY.** Two credits for six weeks; three credits for eight weeks.
This course concerns environmental elements and their influence on economic activity. It analyzes the physical factors which constitute the basis of trade, the determinants of population movements, and the causes of economic imperialism and international strife. Class meets daily at 7:15 in B-12.

30. ACCOUNTING. Two credits for six weeks; three credits for eight weeks. An elementary course dealing with the opening of a set of books, recording of business transactions upon the proper journals, taking off of statements, etc. Emphasis is placed upon the purposes which underly accounting records and the designing of records to secure the information needed in business operations. Class meets daily at 8:25 in B-12.

MR. MCKEE

60. BUSINESS ADMINISTRATION. Two credits for six weeks; three credits for eight weeks.

This course gives the student an understanding of the forms and activities of modern business. The business enterprise is considered as a "going concern" composed of such departments as production, distribution, finance and personnel. Class meets daily at 9:35 in C-15.

MR. MCKEE

ECONOMICS

1. PRINCIPLES OF ECONOMICS. Two credits.

This course covers the basic principles and concepts in economics; the production, consumption and distribution of wealth. This course or its equivalent is required for entrance to any other course in economics in the Arts College. Class meets daily at 9:35 in B-38. PROFESSOR DAVIS

4. MONEY AND BANKING. Two credits.

This course deals with the principles and functions of money, credit and banking; credit instruments and credit and banking institutions, with special emphasis on the Federal Reserve System. Class meets daily at 10:45 in B-13. PROFESSOR DAVIS

EDUCATION

3. HISTORY OF EDUCATION IN THE UNITED STATES. Three credits.

The course includes a study of the European background of American education and of the development of the public school system in the United States. Class meets two periods daily, at 7:15 in B-37 and at 10:45 in B-38, first three weeks, and one period daily, at 7:15 in B-37 last three weeks. MR. SNYDER

17. THE JUNIOR HIGH SCHOOL. Two credits.

The development of the junior high school idea; its special functions and administrative organization; the problems of counseling guidance, and student activities; curriculum development and reconstruction; problems of technique and the administration of instruction. Class meets daily at 10:45 in S-112. MR. EVANS

9. PRINCIPLES OF EDUCATION. Three credits.

A discussion of the principles of educational practice and their evaluation in the light of educational psychology. The aim is to help the teacher deduce educational principles in school management and instruction. The class will recite two periods a day the last three weeks so that three credits may be given to satisfy state requirements for certification. Class meets one period daily, at 8:25 in B-38, first three weeks, and two periods daily, at 8:25 in B-38 and at 10:45 in B-38, last three weeks.

DEAN BANKES

15. CORRELATIVE EDUCATION. One credit.

This course for elementary teachers and supervisors gives a background for the understanding of pupil-problems. Emphasis is given to such subjects as the relation between physical and mental development; changes in mental functions, interests, attitudes, and methods of learning; the relation of mental and physical development to school progress; and problem-cases in instruction and discipline. Class meets daily at 8:25 in B-37 first three weeks only.

MR. PROFFITT

16. SCHOOL ORGANIZATION, PAST AND PRESENT. Two credits.

This course will make a comparative study of the various types of school organization and the contribution each has made to our educational system. The strong points of the traditional, departmental, platoon, intermediate and experimental school organizations will be carefully examined. Class meets daily at 7:15 in B-25.

MR. ERWINE

ENGLISH

1. RHETORIC. Three credits.

This course is designed for basic instruction in English composition, with practice in effective expression of original ideas and with emphasis on elementary principles such as simplicity of structure and concreteness of wording. Attention, in this semester, is devoted particularly to sentence and paragraph structure of short expository compositions. Class meets one period daily, at 7:15, first three weeks, and two periods daily, at 7:15 and at 10:45, last three weeks, in B-26.

MISS STEVENSON

2. RHETORIC. Three credits.

A continuation of Rhetoric 1, with attention to main types and functions of prose writing. This course is planned for study and practice in writing for definite purposes. The written work includes exercises in the types of exposition, description, characterization, and narrative; also, applied work in outlining, paraphrasing, and the making of briefs and abstracts. Prerequisite, Rhetoric 1. Class meets two periods daily, at 8:25 and at 10:45, the first three weeks, and one period daily, at 8:25 the last three weeks, in B-26.

MR. STICKNEY

46. AMERICAN LITERATURE, 1830-1890. Three credits.

The course begins with Poe, Emerson, Hawthorne and the New England group; continues with the rise of the local color story and the western humorists; and develops, through the writings of Whitman and the literature of the post-War period, to the break with the older tradition and the approach to present-day thought. Class meets twice daily, at 9:35 in B-11 and at 11:55 in B-22, for the first three weeks, and once daily, at 9:35, the last three weeks, in B-11.

PROFESSOR PEASE

48. RECENT POETRY. Three credits.

The work under this heading is to include illustrative readings, lectures, topical-reports, and interpretative recitals. The field of study is to be both British and American poetry from about 1890 to 1930, with attention to the drift of present experiment and a comparison of British and American tendencies. Class meets once daily, at 10:45, the first three weeks, and twice daily, at 10:45 and at 11:55, the last three weeks, in B-11.

PROFESSOR PEASE

15. JOURNALISM. Two credits.

This is a general course in contemporary journalism, including a study of the construction and style of news stories, editorials, and feature articles, and a practical application of rules studied. Students will write and edit a summer session newspaper and may also write for Akron newspapers. Class meets daily at 10:45 in B-15.

MR. VANCE

GERMAN**1. BEGINNING GERMAN.** Four credits.

Reading, conversation and grammar. Class meets two periods daily, at 8:25 and at 9:35, in B-22.

PROFESSOR BULGER

HISTORY**4. LATER MEDIEVAL CIVILIZATION.** Two credits.

Beginning with the Crusades a study is made of the problems and institutions which led to the formation of modern western civilization. Class meets daily at 11:55 in B-25.

ASSISTANT PROFESSOR GARDNER

12. AMERICAN HISTORY SINCE THE CIVIL WAR. Two credits.

This course deals with such problems as reconstruction, western expansion, civil service, tariff, trusts, monetary affairs, imperialism, showing their relation to events of the twentieth century, particularly the post-war period. Class meets daily at 10:45 in B-25.

ASSISTANT PROFESSOR GARDNER

HOME ECONOMICS**1. FOODS AND COOKERY.** Three credits.

This elementary course in Foods and Cookery is planned for teachers in a small high school who may be asked to teach Foods along with other subjects when they have not had the training. Food selection and preparation; relation of foods to health. Class meets daily at 7:15 for an hour lecture or recitation in C-7, followed by laboratory until 10:05.

MISS COUNTS

2. FOODS AND NUTRITION. Three credits.

For teachers of Home Economics. A comparison of principles involved in different methods of cookery. A study of the use of different foods in the body and the requirement for an adequate diet at different ages. Laboratory from 10:05 to 11:55 followed by recitation or lecture period until 12:55 in C-7.

MISS COUNTS

MATHEMATICS**2. TRIGONOMETRY.** Four credits.

Angles and their measurements, trigonometric functions, fundamental identities, reduction theorems, addition and multiplication theorems, trigonometric equations, inverse trigonometric functions, right and oblique triangles, and logarithms. Class meets two periods daily at 9:35 and at 11:55 in B-13.

PROFESSOR JONES

METHODS AND TEACHING

1. PLAY MATERIALS. Two credits.

Materials, tools, purposes, and techniques in the use of clay, blocks, sand, paper, wood, roving, cloth, odds and ends; standards for judging work; desirable equipment for indoor and outdoor play. Class meets daily at 10:45 in S-212. MISS KEMLER

4. PRIMARY METHODS. Two credits.

The kindergarten-primary child; the primary classroom; equipment; the daily program; group activities; seat work; testing and classification; the teaching of language. Class meets daily at 11:55 in S-213. MISS KEMLER

5. PRINCIPLES OF ARITHMETIC. Two credits.

The course will deal with subject matter for grades one to eight; social values, course of study, principles of teaching, new methods and devices for securing best results, and a program for testing. Class meets daily at 10:45 in B-22. MR. CLOSE

6. LANGUAGE FOR INTERMEDIATE GRADES. Two credits.

A study of the principles underlying the teaching of language; the grade distribution of language for the fourth, fifth, and sixth grades; the laboratory method of teaching; objectives; types of language activities, their social functions and aims; media, oral and written expression; mechanics. Class meets daily at 7:15 in S-112. MISS HOOVER

8. PRINCIPLES OF HISTORY. Two credits.

A study of history for the grades. Subject matter and methods of instruction will be stressed. Class meets daily at 9:35 in P-1. MR. LIGHT

9. PRINCIPLES OF GEOGRAPHY. Two credits.

A study of natural environment in relation to life. The course will professionalize the subject matter by presenting methods of instruction with the content of the subject matter. Class meets daily at 11:55 in S-212. MR. SNYDER

10. GEOGRAPHY OF AMERICA. Two credits.

Natural resources and climatic features as they influence life forms, industries, cities and chief historic events in North and South America. Class meets daily at 7:15 in S-212. MR. LIGHT

12. STORY TELLING. Two credits.

Story groups; returns from children; story program for the year for kindergarten, first, second and third grades. Prerequisite, Story Telling 11. Class meets daily at 9:35 in B-32. MISS KEMLER

13. STORY TELLING FOR THE UPPER GRADES. Two credits.

This course is designed to teach story telling as an aid to the appreciation of history, literature, science, art, music, etc., as taught in grades four to eight inclusive in the elementary school. Class meets daily at 9:35 in S-212. MISS HOOVER

15. LITERATURE FOR INTERMEDIATE GRADES. Two credits.

Appreciation, the appreciation lesson, method, teacher's equipment, reading lists, reports, book reviews, devices, creative returns, value of literature in the grades, boys' and girls' interest in reading, oral reading, silent reading, objectives, motivation, extensive vs. intensive reading, reading vs. literature, materials, value of literature, work type, leisure time type, economy of silent reading in education. Class meets daily at 8:25 in S-212.

MISS HOOVER

21. SCHOOL MANAGEMENT. Two credits.

This course is designed for elementary teachers. Classroom management and general problems of school management will be discussed. Class meets daily at 8:25 in B-15.

MR. FLICKINGER

24. STUDENT TEACHING. Four credits.

Barberton and Wadsworth have offered the use of their schools for student teaching. All grades and high school will be available. The work will be done under the supervision of competent supervising teachers. Those who desire to do student teaching should make application before June 1. A deposit of ten dollars is required with the application. Students enrolled for this course are required to take the course in Classroom Procedure and Observation.

25. CLASSROOM PROCEDURE AND OBSERVATION. Three credits.

This course accompanies the course in Student Teaching. Careful study of classroom procedure with observations of teaching will comprise the chief part of the course.

30. REMEDIAL WORK IN READING. One credit.

A study will be made of recent developments for the improvement of instruction. Class discussions will involve psychological principles governing the learning process in reading, diagnostic work, type difficulties, individual cases and remedial instruction. For elementary teachers and supervisors. Class meets daily at 9:35 in B-26, first three weeks only.

MR. PROFFITT

31. REMEDIAL EDUCATION. Two credits.

The purpose of this course is to examine the philosophy, the technique, and the principles of teaching underlying remedial instruction in the elementary branches. The aim is to secure a greater efficiency in instruction by building up methods and devices for more effectively teaching children who do not seem able to make normal school progress. Class meets daily at 8:25 in B-13.

MR. ERWINE

36. BEACON READING. Two credits.

This course is planned for teachers of the first three grades. It consists of a careful study of the manual and the underlying principles of the method. Type lessons will be given for the various grades, with special attention to beginning reading. The work includes demonstrations of the teaching of reading and a discussion of reading problems. Class meets daily at 8:25 in K-22.

MISS WEYER

37. READING METHODS. Two credits.

Special reading methods for the primary grades with attention to the newer systems of primary reading. Class meets daily at 10:45 in B-32.

MRS. STALTER

NATURE STUDY

I. NATURE STUDY (For Primary Teachers). Two credits.

Care will be taken to present the subject matter, including hikes, field specimens and methods, in such a manner as to appeal to more formal organization in city platoon schools, outlying or consolidated school system and rural school instruction. Training in technique of field trips and ways and means of correlating nature instruction with other branches of school work. Class meets daily at 7:15 in B-38.

MR. BRYANT

2. NATURE STUDY (For Intermediate and Higher Grade Teachers). Two credits.

Work in this course will be handled in such a manner as to conform to needs of instructors in rural schools as well as those of platoon schools involving more formal organization. The technique of conducting field trips, the special correlative value of such work, the identification of common specimens of plant and animal life and study of other physical phenomena will receive attention. Class meets daily at 8:25 in O-25.

MR. BRYANT

PHYSICAL EDUCATION AND HEALTH

4. PERSONAL HYGIENE. Two credits.

The aim of this course is to give a scientific background for the various health activities of the school and the community. Care of the body from both the individual and the social viewpoints is studied. Class meets daily at 9:35 in S-113.

MR. SMITH

II. FOLK GAMES. Two credits.

One-hour lectures are given each week on characteristics and customs of various countries, on the history of dancing, and on method of presentation of dancing and rhythmical work. Typical folk dances and singing games as well as some action games are given as practice during the balance of the required time. Class meets daily from 7:15 to 9:25 in Crouse gymnasium.

MISS DUNCKLEY

12. FOLK GAMES. Two credits.

This is conducted similar to 11 but practice is advanced. More advanced rhythmical work is given in practice and stress placed on the execution of more complicated dances than in course 11. Two hours daily. Prerequisite 11. Class meets daily from 9:35 to 11:45 in Crouse gymnasium.

MISS DUNCKLEY

13. FOOTBALL COACHING. Two credits.

This course is designed to give a teaching knowledge of football to those who expect to coach. Approximately half of the time will be spent on theory, stressing various offensive and defensive systems. The other part includes demonstrations of fundamentals and a study of the psychology of coaching. Class meets daily at 10:45 in Crouse gymnasium.

COACH BLAIR

14. BASKETBALL COACHING. Two credits.

Open to both men and women but the system of play discussed will apply to the game as played under men's rules. Various systems of offense and defense will be discussed and plays will be outlined. The greater part of the course will be of a practical nature, stressing correct execution of fundamentals. Class meets daily at 11:55 in Crouse gymnasium.

COACH BLAIR

20. ORGANIZATION OF PHYSICAL EDUCATION ACTIVITIES. Two credits.

This course includes the organization of physical education activities to meet the needs of special teachers in the field and class room teachers who must assist in physical education work. A study is made of modern aims and new principles. Emphasis is placed upon local needs. This is a practical course to produce results in the field. Class meets daily at 7:15 in S-113.

MR. SMITH

30. SCHOOL HEALTH. Two credits.

The course deals with school sites, drainage, sanitation; beautifying; efficiency; school buildings, lighting, heating, sanitation; school furniture, seat equipment; gymnasium, size, care; school health problems, detection, remedies. Class meets daily at 8:25 in S-113.

MR. SMITH

POLITICAL SCIENCE

1. PROBLEMS OF CITIZENSHIP. Two credits.

A survey of the social, economic, and political aspects of American citizenship. A group of selected problems is the basis of class room discussions and assigned readings. Class meets daily at 7:15 in B-15.

PROFESSOR CRECRAFT

25. INTERNATIONAL RELATIONS. Two credits.

An introductory treatment of modern topics in international relations, including the latest developments in world politics. Class meets daily at 8:25 in B-25.

PROFESSOR CRECRAFT

PSYCHOLOGY

1. GENERAL PSYCHOLOGY. Three credits.

A foundation of the facts, principles and theories of human psychology that will function either in pursuing more advanced courses or in reacting successfully to situations not common to the classroom. Class meets one period daily, at 7:15 in B-22, first three weeks, and two periods daily, at 7:15 in B-22 and 9:35 in K-22, last three weeks.

DR. WOOD

2. EDUCATIONAL PSYCHOLOGY. Two credits.

This course is designed to make application of the general psychological principles operating in individual behavior, as applied to the teaching profession. Class meets daily at 9:35 in B-25.

PROFESSOR KUHNES

4. CHILD PSYCHOLOGY. Two credits.

This course deals with the child as the product of instincts and emotions, the epochs of ontogenetic development, the origin and significance of play and other social activities. The aim is to give a psychological basis for the intelligent management of the pre-adolescent child. Class meets daily at 8:25 in S-213.

PROFESSOR HAYES

6. TESTS AND MEASUREMENTS FOR ELEMENTARY SCHOOLS. Two credits.

In this course a brief study is made of school marks as compared to the marks given in standard tests. The elements of statistical measurements, administration and marking various types of educational tests, and the possible use of such marks, are studied. Class meets daily at 9:35 in O-25. A laboratory fee of \$1.00 will be charged.

MR. BATES

PUBLIC SCHOOL MUSIC

37. APPRECIATION OF MUSIC. Two credits.

The aim of this course is to develop intelligent listeners. By means of lectures with musical illustrations, outside readings, written and oral criticisms, and the use of the best records, the student is made familiar with important works of musical literature. Study of graded material and the methods of presenting the work to children. Class meets daily at 10:45 in Music Hall.

MISS RIDER

38. HISTORY OF MUSIC. Two credits.

This course takes up music of primitive nations, music and instruments of the Bible, music of the early Christian church, rise and development of liturgy, music and the Renaissance, the polyphonic age, rise of opera and oratorio, periods of Bach and Handel, Haydn and Mozart. Class meets daily at 7:15 in Music Hall.

MISS RIDER

9. PUBLIC SCHOOL MUSIC (Primary Grade). One credit.

This course is devoted to the study and demonstration of materials and methods for kindergarten and the first four years in music. Special attention is given to the presentation of tonal and rhythmic problems as they are taken up in the successive years. Class meets daily at 9:35 in Music Hall.

MISS RIDER

10. PUBLIC SCHOOL MUSIC (Upper Grade). One credit.

This course is devoted to the teaching of music in the upper grades, from the fifth to the eighth inclusive. The work of each year is taken up in detail. Class meets daily at 8:25 in Music Hall.

MISS RIDER

1. VOICE. One credit.

Two half-hour private lessons and one hour Master class lesson per week. Classic and standard songs will be taught. A working knowledge of the use of the voice is developed in the private lessons. In the Master class the anatomy of the parts used in producing voice is explained. Vocal technique, song analysis, interpretation and repertoire. Each pupil must attend the Master class to receive credit. Private lessons will be given Monday and Thursday between the hours of 9:00 and 3:00. Time of Master class will be arranged. Cost of course, \$30.00.

MR. STRASSNER

I. PIANO. One credit.

The work in piano will be devoted to repertoire with special care and emphasis on matters pertaining to technique. Six weeks; two lessons per week; Master class one hour per week. Time to be arranged to suit students. Cost of course, \$30.00.

PROFESSOR DELEONE

I. VIOLIN. One credit.

The work in violin will be devoted to technique. Six weeks; two lessons per week; Master class one lesson per week. Time to be arranged to suit students. Cost of course, \$30.00.

MR. CHAPMAN

SOCIOLOGY

I. GENERAL SOCIOLOGY. Two credits.

This course includes a study of the nature of society, and nature and scope of sociology, the evolution of social forms and activities, the development and functions of the state, the social phases of industry, the evolution of ethics and religion, the socialization of mankind, and the methods of social control. Class meets daily at 9:35 in B-37.

5. SOCIOLOGY OF PERSONALITY AND LEADERSHIP. Two credits.

Sociological factors in the formation of personality, struggle for psychic survival and self-hood, prestige, bases and methods of leadership, conservation of genius and talent, defeated and maladjusted personalities, will be considered in this course. Class meets daily at 10:45 in B-37.

17. EDUCATIONAL SOCIOLOGY. Two credits.

This course deals with the application of sociological principles to teaching and practical discussion of dealing with parents and pupils in the light of sociological conditions. Various organizations of the community are considered in their relation to educational advancement. Class meets daily at 11:55 in B-15.

MR. CLOSE

SPEECH

I. INTERPRETATION, AND READING REHEARSALS. Three credits.

Inflection, tone color, grouping, and tempo, as means of vocal expression, and as modes of expression, simplicity, responsiveness, and abandon, are studied in this course. Plays are rehearsed as exercises in dramatic delivery and reading of lines. Class meets one period daily, at 8:25, first three weeks; and two periods daily, at 8:25 and at 10:45, last three weeks, in B-12.

MISS MC EBRIGHT

2. VOICE AND SPEECH. Three credits.

This course includes physical exercises for normal carriage and gestures. Personality is studied and preserved, while the appearance and address are aided in the process of development toward the normal type of cultivated manhood and womanhood. Class meets two periods daily, at 9:35 and at 10:45, first three weeks; and one period daily, at 9:35, last three weeks, in B-12.

MISS MC EBRIGHT

Students desiring private lessons may secure them of Miss McEbright.

VOCATIONAL EDUCATION

2. HISTORY AND PHILOSOPHY OF VOCATIONAL EDUCATION. Two credits. A brief survey of the rise and development of vocational education in Europe and America. Historical and contemporary theories and their expression in school and industrial practice. The place of vocational education in a democracy. Apprenticeship under the guild system. Social and economic factors that have affected apprenticeship. The various types of organization for vocational education. Theories underlying state and federal aid for vocational education. Class meets daily at 8:25 in S-112. MR. GREENLY

3. EDUCATIONAL AND VOCATIONAL GUIDANCE. Two credits. An introductory basic course in guidance as an integrating influence in education. Youth must be oriented to social organization—a function as many phased as education itself. Guidance must be more than vocational, although the life career motive is the organizing factor. Class meets daily at 11:55 in S-112. MR. GREENLY

GRADUATE COURSES

Seniors may be admitted to these courses by permission of the Instructor and the Director.

EDUCATION

119. CHARACTER BUILDING IN EDUCATION. One credit. In this course character building is treated as an engineering problem. The need of character formation, the relative effect of school methods and school subjects, the relation of moral and mental activities are studied. The various character-building curricula will be evaluated. Class meets daily at 8:25 in B-37, last three weeks only. MR. COOKSON

120. THE TEACHER'S PERSONAL EQUIPMENT. One credit. A practical course dealing with the important aspects of the teacher's personality. The course is designed to aid in self analysis so that strong points may be known and used and weak ones strengthened. Each student makes a study of his personal equipment. The aim is to point the way to the development of personalities. Class meets daily at 9:35 in B-26 last three weeks only. MR. COOKSON

104. HISTORY OF THE PHILOSOPHY OF EDUCATION. Two credits. A study of the contributions of great thinkers, from Socrates to the present, to the development of an educational philosophy. Class meets daily at 10:45 in S-113. PROFESSOR KUHNES

114. CURRENT EDUCATIONAL THOUGHT. Two credits. A critical analysis of the new books of the year. Each student presents a book. Class meets daily at 11:55 in S-113. PROFESSOR KUHNES

116. EDUCATIONAL SUPERVISION. Two credits. A study and application of principles and objective techniques of supervision. Designed for experienced teachers, principals, and supervisors. Class meets daily at 9:35 in S-112. MR. EVANS

118. TEACHING METHODS IN HIGH SCHOOLS. Two credits.

A discussion of the method of adjusting education to the needs of high school pupils; a consideration of important results of all teaching; how these results may best be attained; the more common details of teaching technique; the investigation of new procedures; measurement of the results of instruction; suggestions for effective practice. Class meets daily at 8:25 in B-11.

MR. LADD

109. HIGH SCHOOL ADMINISTRATION. Two credits.

An analysis of the activities of junior and senior high school principals, and an intensive study of the major problems that are revealed. Scientific studies bearing upon these major problems furnish the main body of materials. Class meets daily at 7:15 in B-13.

MR. EVANS

121. THE ORGANIZATION, MANAGEMENT AND DISCIPLINE OF SCHOOLS. One credit.

This course is for teachers, principals, supervisors and superintendents. The different systems of organizations, the principles underlying the supervision of instruction and the study of the technique of management are presented from a background of experience. Discipline in the schools and the underlying laws of control will be discussed. A clinic for the study of perplexing questions will be provided. Class meets daily at 10:45 in S-213, last three weeks only.

MR. COOKSON

124. RECENT DEVELOPMENTS IN ELEMENTARY EDUCATION. Three credits. Modern contributions to educational thought and a critical examination of the results of recent scientific investigations. The emphasis will be on the application of the information thus gathered to everyday problems. Class meets two periods daily, at 8:25 in B-32 and 9:35 in K-22, first three weeks, and one period daily, at 8:25 in B-32, last three weeks.

DR. WOOD

126. CURRICULUM DEVELOPMENT. Two credits.

A discussion of the various present conceptions of the curriculum, the changing theories of education and their effect on objectives, curriculum content, and general school organization; differences of the curricula due to urban and rural life, or local conditions; a study of various school systems representing different points of view in curriculum building. Class meets daily at 7:15 in C-15.

MR. LADD

130. ADVANCED EDUCATIONAL SOCIOLOGY. Two credits.

An intensive study of the principles underlying Sociology as they apply to the field of public education. Class meets daily at 9:35 in S-213.

PROFESSOR HAYES

PSYCHOLOGY

103. TESTS AND MEASUREMENTS FOR SECONDARY SCHOOLS. Two credits. This course is designed for high school teachers. The following topics will be considered: need for standards in grading, simple statistical methods, history of mental and educational tests, standard criteria for making and judging tests, and latest and most practical tests for use in high schools. Class meets daily at 7:15 in B-32. A laboratory fee of \$1.00 will be charged.

MR. BATES

104. MENTAL HYGIENE. Two credits.

Problems of mental health, conditioning of reflexes and their results, mental attitudes, causes and results, inhibitions and orderly associations. Class meets daily at 7:15 in S-213.

PROFESSOR HAYES

III. EXPERIMENTAL EDUCATION. One credit.

Training in the technique of research studies in education and a study of the principles governing experimental studies. Each student will be required to carry on some problems. The class will be sectioned so as to care for both advanced and beginning students. Class meets daily at 10:45 in S-213, first three weeks only.

MR. PROFFITT

RESEARCH**103. THESIS. Four credits.**

This course is required of all who are candidates for the Master's degree. Conferences by appointment are held. In addition to the preparation of the thesis, at least two appearances before the Seminar are required. A fee of \$10 is charged.

104. RESEARCH PROBLEM. One or two credits, by arrangement.

This course is in addition to the thesis. Only those who have received permission from their major professors and whose problems are approved, may receive credit. A fee of \$5 is charged.

SCHEDULE OF 1930 SUMMER SESSION CLASSES

All courses are credited in Teachers College; those starred receive credit in Buchtel College of Liberal Arts.

B refers to Buchtel Hall; C to Curtis Cottage; K to Knight Chemistry Building; M. H. to Music Hall; O to Olin Hall; P to Phillips Hall, and S to Spicer Building. The number after each subject indicates the room in which the class will recite.

7:15 to 8:15		Principles of History ----- P-1
*Biology ----- O-25	Public School Music (Prim. Grades) ----- M. H.	
*Chemistry ----- K-22	*Recent Development in Education (First 3 weeks) ----- K-22	
Clay Modeling ----- P-1	Remedial Work in Reading, (first 3 weeks) ----- B-26	
Curriculum Development ----- C-15	Story Telling for Primary Grades ----- B-32	
Economic Geography ----- B-12	Story Telling for Upper Grades ----- S-212	
Folk Games 11 ----- Gym.	Teachers Equipment, (last 3 weeks) ----- B-26	
*Foods & Cookery ----- C-7	*Tests and Measurements, (Ele. Sch.) ----- O-25	
Free Sketch ----- P-1	*Trigonometry ----- B-13	
*General Psychology ----- B-22	*Voice and Speech ----- B-12	
Geography of America ----- S-212		
High School Administration ----- B-13	10:45 to 11:45	
*History of Education ----- B-37	*American History ----- B-25	
History of Music ----- M. H.	*Biology ----- Laboratory	
Language for Inter. Grades ----- S-112	*Chemistry ----- K-22	
*Mental Hygiene ----- S-213	Clay Modeling ----- P-1	
Nature Study (Primary Grades) ----- B-38	Experimental Education (first 3 weeks) ----- S-213	
Organization of Phys. Ed. ----- S-113	Folk Games 12 ----- Gym.	
*Problems of Citizenship ----- B-15	*Foods and Nutrition ----- C-7	
*Rhetoric 1 ----- B-26	Football Coaching ----- Gym.	
School Organization ----- B-25	Free Sketch ----- P-1	
*Tests & Measurements for Secondary Schools ----- B-32	History of the Philosophy of Education ----- S-113	
8:25 to 9:25		*History of Education (first 3 weeks) ----- B-38
Accounting ----- B-12	*Interpretation & Reading Rehearsals, (last 3 weeks) ----- B-12	
Beacon Reading ----- K-22	*Journalism ----- B-15	
*Biology Laboratory ----- S-213	*Money and Banking ----- B-13	
Nature Study (Upper Grades) ----- O-25	Music Appreciation ----- M. H.	
*Character Education, (Last 3 weeks) ----- B-37	Organization and Management, (last 3 weeks) ----- S-213	
*Chemistry ----- Laboratory	Play Materials ----- S-212	
*Child Psychology ----- S-213	Principles of Arithmetic ----- B-22	
Correlative Education, (First 3 weeks) ----- B-37	Principles of Education, (last 3 weeks) ----- B-38	
Clay Modeling ----- P-1	Reading Methods ----- B-32	
Folk Games 11 ----- Gym.	*Recent Poetry ----- B-11	
*Foods & Cookery ----- C-7	*Rhetoric 1, (last 3 weeks) ----- B-26	
Free Sketch ----- P-1	*Rhetoric 2, (first 3 weeks) ----- B-26	
*German ----- B-22	*Sociology of Personality ----- B-37	
History & Philosophy of Vocational Education ----- S-112	The Junior High School ----- S-112	
*International Relations ----- B-25	*Voice and Speech, (first 3 weeks) ----- B-12	
*Interpretation & Reading Rehearsals ----- B-12		
Principles of Education ----- B-38	11:55 to 12:55	
Public School Music, (Upper Grades) ----- M. H.	*American Literature, (first 3 weeks) ----- B-22	
*Recent Developments in Education ----- B-32	Basketball Coaching ----- Gym.	
Remedial Education ----- B-13	Clay Modeling ----- P-1	
*Rhetoric 2 ----- B-26	*Current Edl. Thought ----- S-113	
School Health ----- S-113	*Educational Sociology ----- B-15	
School Management ----- B-15	Educational & Vocational Guidance ----- S-112	
Teaching Methods in High Schools ----- B-11	*Foods and Nutrition ----- C-7	
Upper Grade Literature ----- S-212	Free Sketch ----- P-1	
9:35 to 10:35		*Med. History ----- B-25
*Advanced Educational Sociology ----- S-213	*Primary Methods ----- S-213	
*American Literature ----- B-11	Principles of Geography ----- S-212	
*Biology ----- Laboratory	*Recent Poetry, (last 3 weeks) ----- B-11	
Business Administration ----- C-15	*Trigonometry ----- B-13	
*Chemistry ----- Laboratory		
*Educational Psychology ----- B-25		
*Educational Supervision ----- S-112		
Folk Games 12 ----- Gym.		
*Foods and Cookery ----- C-7		
*General Psychology (last 3 weeks) ----- K-22		
*Foods & Nutrition ----- C-7		
*General Sociology ----- B-37		
*German ----- B-22		
*International Relations ----- B-15		
Personal Hygiene ----- S-113		
*Principles of Economics ----- B-38		

ASSEMBLY SCHEDULE

Assembly exercises will be held each week on Thursday from 11:00 to 12:00 o'clock. Class periods on Thursdays will be as follows:

7:00 to 7:55
8:00 to 8:55
9:00 to 9:55
10:00 to 10:55
12:05 to 1:00

COMMUNITY CO-OPERATION

The work in community co-operation has been undertaken for the purpose of bringing the University in all its departments into close touch with the activities of the city of Akron. The Directors of the University feel that an institution of higher learning, supported in large part by municipal taxation, should give freely to the city all possible practical aid by means of its instructors and equipment.

While the work of community co-operation is not primarily organized for the purpose of teaching, yet one of its important objects is to bring students into contact with the work of the city and to train them along various lines of practical usefulness to the community. Whenever possible, the actual problems of civic life and administration are substituted in the various courses for purely theoretical work, since the University considers this training as one of the most important branches of its activity.

DIVISIONS OF CO-OPERATIVE WORK

The work properly falls under two heads:

- I. Special organizations or Bureaus.
- II. Co-operative work by various departments of the University.

I. SPECIAL ORGANIZATIONS

THE BUREAU OF CITY TESTS

E. F. SCHAEFER, B. E. M., *Director*

In accordance with the proposal made by the Directors of the University and accepted by the Akron City Council, the University assumes entire charge of the chemical and physical testing work of the city. The Bureau of City Tests was created and took charge of this work January 1, 1914. All analytical and diagnostic work of the city was done by the Bureau until November, 1916, when a diagnostic bacteriological laboratory was created at the Board of Health office and assumed this work.

The Bureau is a part of the Knight Chemical Laboratory and co-operates with the Department of Chemistry in bringing students in advanced courses in chemistry into touch with the city work by giving them actual problems of the city for solution as a part of their regular class work.

II. CO-OPERATIVE WORK BY DEPARTMENTS

The following list covers activities of the past few years:

DEPARTMENT OF BIOLOGY

Close affiliation is maintained with the City Health Department. Bacteriological and serological testing and investigations are carried on in connection with the various clinics and hospitals. A "blood squad,"

composed of selected students, is held in readiness for emergency transfusions. Facilities are provided for research work on the part of some of the surgeons of the city. Numerous lectures and informal talks have been given before luncheon clubs and other organizations, in Akron and in nearby towns.

DEPARTMENT OF CHEMISTRY

Three fellowships in the chemistry of india rubber, open to graduates of standard American colleges, have been established at the University by Akron rubber companies, for the purpose of training men for service in their laboratories.

DEPARTMENT OF ENGLISH

Field work in journalism for local newspapers and other publications.

DEPARTMENT OF PHYSICAL EDUCATION

Summer camp work for boys in Akron by Director and students.

HOME ECONOMICS

Arrangements have been made with the City Hospitals by which especially prepared students may take student training courses in dietetics.

COLLEGE OF ENGINEERING AND COMMERCE

Engineering students work alternate nine-week periods in foundries, machine shops, rubber factories, and on construction and railroad work. Arrangements have been made to provide outside work on an alternate semester basis for commerce students. Civil engineering students are assigned to municipal work under direction of city service departments.

Engineering instructors make numerous tests of materials and machines for local industries. Technical men in local organizations use facilities of the engineering laboratory for testing purposes.

THE TEACHERS COLLEGE

The work of the Teachers College is specifically organized for the preparation and training of teachers for the Akron Public School system, the professional improvement of teachers already engaged in the Public School service, and the study of educational problems.

The first purpose the Teachers College is expected to achieve is the affiliation of teacher training with the various colleges of the University, which gives opportunity to all teachers in training to receive academic preparation with the professional training.

The second purpose is to increase very considerably the opportunities for continued training to teachers already in service. Late afternoon, evening and Saturday courses are offered.

The third purpose is to bring teacher training into closer contact with the instructional, supervisory, and administrative forces of the city. The real, vital problems of education may thus be studied by all who represent these forces. In this way the progressive phases of school work in the city will be reflected in the training courses, and the study of these problems by the Teachers College will bring suggestions for methods in

teaching, for new forms of training, and for various modifications of school work. Students are required to do practice teaching in the Akron schools for one semester.

The graduate course in Teachers College with its research work in connection with these provides careful study of problems in Akron's educational program.

THE EVENING SESSION

In addition to duplicating courses of study which are a part of the Day Session curriculum by offering these subjects as "University Training at Night", the Evening Session assists the various business associations of Akron to organize courses of college grade. Each course is organized separately with a guiding committee of association members and educational counselors including the head of the Department of Commerce and Administration. Each committee plans definite objectives for its course of study. The Evening Session supplies the teaching staff and place of meeting, and is responsible for the administration of the educational program as planned. During the past academic year, the following associations have used this service with varied success:

- The Akron Real Estate Board
- The Akron Purchasing Agents Association
- The Akron Advertising Club
- The Akron Retail Merchants Association
- The Akron Life Underwriters Association

See the Evening Session section for the committees and courses offered.

SHORT COURSES AND INSTITUTES

The Committee on Extension Lectures functions to provide clubs, business organizations and associations with lectures based on a definite objective developed by a survey or an apparent need. The lectures and study may be presented in series of from two to ten lectures, or in one or two day institutes as the organization desires. The Institutes so far organized by this committee have been for ten lectures, one each week for a period of ten weeks. The following clubs and associations have used this service:

- The Akron Retail Lumber Dealers Association
- The Federation of Women's Clubs of Akron and Summit County
- The Warm-Air Heating and Ventilating Association of the Builders Exchange of Akron and Vicinity
- The Akron Credit Men's Association
- The Akron Purchasing Agents' Association
- The Short Story Institute
- The Akron Personnel Association
- The Akron Home and School League

THE LIBRARY

The resources of the Library are open to citizens of the city of Akron for reference during the regular library hours, and for circulation in so far as the demands of classwork upon the collection will permit.

REGISTER OF STUDENTS

1929-1930

BUCHTEL COLLEGE OF LIBERAL ARTS

GRADUATE STUDENTS

Brown, Raymond Ramsey.....	Akron
B. S., The University of Akron.	
Finley, Milton.....	Niles
B. S., Denison University.	
Finney, Addis Howard.....	Akron
B. S., The University of Akron.	
Gilleland, Joseph Ellsworth.....	Akron
B. S., The University of Akron.	
Graves, Clio Robert.....	Kokomo, Ind.
B. S., University of Chattanooga.	
Hayes, Merlin Lewis.....	Akron
B. E., The University of Akron.	
Hottenstein, Howard W.....	Akron
M. D., Western Reserve University.	
Kaneko, Hideo.....	Japan
B. S., Yokohama Technological College.	
Kuo, Ching Fen.....	China
M. S., University of Illinois.	
Paff, Harold George.....	Blue Earth, Minn.
B. A., Macalester College.	
Scheffler, Edward Frederick.....	Chicago, Ill.
B. S., University of Michigan.	
Uchiyama, Yasutoshi.....	Tokio, Japan
B. Eng'g., Waseda University.	
Vaughan, William Thomas.....	Akron
B. S., Niagara University.	
—Total 13 Men	

SENIOR CLASS

	Course	
Allaman, Loudora Mae.....	A. B.	Akron
Baker, Lawrence Maywood.....	B. S.	Akron
Barrackman, Lulu Merle.....	A. B.	Akron
Belohlavek, Vlasta Marie.....	A. B.	Akron
Binet, Olga.....	A. B.	Akron
Bliss, Raymond Charles.....	A. B.	Akron
Boblett, William Blair.....	A. B.	Akron
Boyd, Beatrice Pearl.....	A. B.	Akron
Brown, Robert Johnston.....	A. B.	Akron
Brueggeman, Elmer C.....	B. S.	Akron
*Burns, Evelyn.....	B. S.	Akron
Coates, Mary.....	A. B.	Oklahoma City, Okla.

*In absentia, Combination Arts-Nursing Course with Western Reserve University.

Cochran, Harold Montgomery	A. B.	Lakemore
Conley, Dorothy Louise	A. B.	Akron
Connelly, Franklin B., Jr.	A. B.	Akron
Corman, Irvin Stanley	A. B.	Akron
Courtney, Margaret Cecelia	A. B.	Akron, R. D.
Darst, Byron Holvey	A. B.	Akron
Dasch, Anna May	A. B.	Akron
Davies, Maxwell Haydn	A. B.	Akron
Decker, Faith	A. B.	Akron
Dietrich, Philip Joseph	A. B.	Akron
Doutt, Howard McKenzie	A. B.	Akron
Fink, Charles David	A. B.	Akron
Fisher, Norman Gail	B. S.	Akron
Foster, Mary Kathryn	A. B.	Akron
Foutts, James C.	A. B.	Sebring
France, Corinne Jessie	A. B.	Akron
Fulton, Robert Palmer	B. S.	Akron
Galloway, Merrill Frederick	B. S.	Peninsula
Gaskill, Harold Edward	A. B.	Akron
Graham, Robert Bruce	A. B.	North Fairfield
Gwaltney, Ralph	B. S.	Kenmore Sta.
Hunsicker, Dorothy Alice	A. B.	Akron
Johnson, Luther Roscoe	A. B.	Akron
Jones, Irene Moredock	A. B.	Akron
Kroeger, Mary Elizabeth	A. B.	Akron
Krohmer, Jesse Gordon	A. B.	Akron
Kruse, Arthur Henry	A. B.	Akron
Lansinger, Inga Thelma	A. B.	Akron
Leach, Lucile	A. B.	Akron
Lenhart, George B.	B. S.	Akron
Lewin, Charles A.	B. S.	Kenmore Sta.
Lewis, John Bernard	A. B.	Akron
Lieberman, Harry	A. B.	Akron
Mahoney, John Paul	A. B.	Akron
Mostenic, Mary Ruth	A. B.	Akron
Mottinger, Claude W.	A. B.	Cuyahoga Falls
Northy, Marian Estelle	A. B.	Akron
O'Neil, Mary Catherine	A. B.	Akron
Parenti, Juliette	A. B.	Akron
Peabody, Donald W.	B. S.	Akron
Perry, William Thomas	A. B.	Akron
Reed, Margaret Lyle	A. B.	Barberton
Rice, Russell Turner	B. S.	Akron
Robertson, Lowell Emmit	A. B.	Akron
Rockwell, Harriet Anne	A. B.	Akron
Rogers, Joseph Marion	A. B.	Akron
Shuman, Elliott Herron	A. B.	Akron
Sloan, Ruth McNeil	A. B.	Akron
Snyder, Russell F.	A. B.	Akron
Sturdevant, Martha	A. B.	Akron
Thomas, Daniel	A. B.	Akron
Thompson, Rufus Lee	A. B.	Akron
Tripp, Charles David	A. B.	Barberton
Ufford, Charles William	A. B.	Akron
Waller, Florence Josephine	A. B.	Akron
Waller, Gerald C.	A. B.	Akron
Warner, Eugene Calvin	A. B.	Akron
Whiteman, Frank Martin	A. B.	Akron
Young, Edwin A.	A. B.	Akron

Men 44; Women 27; Total 71

JUNIOR CLASS

Course

Alkire, Leo Raymond	A. B.	Akron
Anderson, Verner Alfred	B. S.	Akron
Anderson, Orville M.	A. B.	Akron
Arnette, Rexford R.	A. B.	Mogadore
Averell, Priscilla	A. B.	Akron
Bendure, Myrtelle	A. B.	Fairlawn
Bergin, Preston Barrett	A. B.	Akron
Berloff, Morris	A. B.	Akron
Bitcon, Leroy	A. B.	Barberton
Bitner, Walter David	B. S.	Akron
Blackman, Allan Carpenter	A. B.	Akron
Brooker, Harriet Elisabeth	A. B.	Akron
Bump, Flora Margaret	A. B.	Akron
Caldwell, John Richard	B. S.	Akron
Clark, Elizabeth Margaret	A. B.	Cuyahoga Falls
Cooke, Gerald Francis	A. B.	Akron
Cooper, Graydon Phillips	A. B.	Akron
Cox, Homer Theodore	A. B.	Akron
Creighton, Ruth Colleen	A. B.	Akron
Dally, Robert Marsh	A. B.	Akron
Dete, Leo Joseph	B. S.	Akron
Doerler, Charles Edward	A. B.	Akron
Dunwiddie, D. Stanley	A. B.	Akron
Ellsworth, Raymond VanEvera	A. B.	Akron
Emerick, William John	A. B.	Akron
Enright, Wimmiam Michael	B. S.	Akron
Fischer, Alberta Clara	A. B.	Akron
Frost, Cecil A.	A. B.	Akron
Galleher, Ed Lucky	A. B.	Akron
Germann, Paul P.	A. B.	Akron
Gettins, Patricia	A. B.	Akron
Green, Albert Lewis	B. S.	Akron
Gregg, Wilford Judson	A. B.	Akron
Gregory, Dorothy Winifred	A. B.	Akron
Hahn, Catherine Louise	A. B.	Akron
Hahn, Helen Hamilton	A. B.	Akron
Hall, William Newton	A. B.	Akron
Hamlin, Margaret Jane	A. B.	Akron
Hartz, Ralph William	A. B.	Akron
Hazlett, Charles Brown	A. B.	Akron
Himebaugh, Lucille	A. B.	Akron
Honeywell, Arvine Joseph	A. B.	Akron
Jackson, Mary Elizabeth	A. B.	Akron
Jenkins, James A.	A. B.	Akron
Jones, Cyril	A. B.	Akron
Joy, Marjorie Josephine	A. B.	Cuyahoga Falls
Kastner, Lena Marie	A. B.	Akron
Katz, Arnold Leo	A. B.	Akron
Kaufmann, Frank Philip	A. B.	Akron
Keck, Virgil Lowell	A. B.	N. Canton
Keister, Donald Adams	A. B.	Barberton
Krupp, Ilma Irene	A. B.	Barberton
Ladrock, Roy Clinton	A. B.	New Philadelphia
Laudenbach, Elizabeth Adele	A. B.	Diamond
Link, Mary Kay Jane	A. B.	Akron
MacKenzie, Mary Sue	A. B.	Greenville, S. C.
McGrath, Helen R.	A. B.	Akron
McShaffrey, Rita Rose	A. B.	Akron

Mahoney, Robert J.	A. B.	Akron
Matz, Margaret	A. B.	Akron
Maxwell, Boyd Walden	B. S.	Akron
Maxwell, Otis Graydon	A. B.	Akron
Miller, Arthur N.	A. B.	Akron
Murdoch, John Kenneth	A. B.	Akron
Murray, William Newton	A. B.	Akron
Nagy, Louis	B. S.	Akron
Nasrallah, Arthur R.	A. B.	Akron
Neff, William Edward	A. B.	Bellaire
Newton, Frank H.	B. S.	Akron
Pfeifer, Wilbur Frank	A. B.	Akron
Phelps, Kenton Robinson	B. S.	Kent
Pittenger, Doris Jean	A. B.	Akron
Poppenger, Grace Elizabeth	A. B.	Akron
Reymond, Guy Maxwell	B. S.	New Philadelphia
Robertson, Mervin Paul	A. B.	Akron
Rutherford, James E.	A. B.	Akron
Sacks, Leon J.	B. S.	Akron
Schmaltz, Robert Morris	A. B.	Akron
Schneider, Dorothy Jeanne	A. B.	Akron
Sellers, David Conrad	A. B.	Akron
Shank, Donald Jay	A. B.	Akron
Snyder, Kathryn Elizabeth	A. B.	Akron
Sonnhalter, Eleanor Mary	A. B.	Barberton
Steineck, Bettie Margaret	A. B.	Akron
Stewart, Chalmers K.	A. B.	Akron
Tapper, Irving Bernard	A. B.	Akron
Thornburg, Susan Frances	A. B.	Akron
Turner, John Donald	A. B.	Akron
Vasbinder, Dorothy May	A. B.	Akron
Wade, Donald Charles	A. B.	Silver Lake
Walker, Sidney Roland	A. B.	Akron
Wells, Edward William	A. B.	Akron
Whipple, Paul Stanley	A. B.	Barberton
Williams, Mathew Quay	B. S.	Julian, Pa.
Winans, Irene Marion	A. B.	Akron
Wirz, Elizabeth Ida	A. B.	Akron
Wise, Miriam Lanier	A. B.	Mogadore
Zels, Ruth Marie	A. B.	Akron
Zellinger, Bella Rebecca	A. B.	Akron

Men 63; Women 36; Total 99

SOPHOMORE CLASS

	Course	
Alexander, Donald Wilbur	A. B.	Akron
Axel, Goldie	A. B.	Akron
Bartlett, Jean Henrietta	A. B.	Akron
Beck, Howard Lawrence	A. B.	Akron
Becker, Irene Rose	A. B.	Akron
Bernard, Madeline Marie	A. B.	Barberton
Binet, Anna Edith	A. B.	Akron
Blair, Curtis Leroy	A. B.	Akron
Bowen, Bertha Gertrude	A. B.	Akron
Bryant, Charles Edmund	A. B.	Akron
Chapel, Ruth Eileen	A. B.	Akron
Cook, Fritzi	A. B.	Akron
Corman, Eleanor Janet	A. B.	Akron
Cornish, Vernon Thomas	A. B.	Jefferson
Davidson, William T.	A. B.	Akron

Dietrich, Mildred Elizabeth	A. B.	Akron
Dietz, LeRoy Edward	A. B.	Akron
Dobkin, Ida Sydnie	A. B.	Akron
Duell, Nap Robertson	B. S.	Malvern
Duncan, Wilma Urilla	A. B.	Akron
Earley, Laurence Terence	A. B.	Akron
Engstrom, Ruth Isabella	A. B.	Akron
Falor, Clyde Forest, Jr.	B. S.	Akron
Ferguson, Dan Chayne	B. S.	Akron
Fischer, Jesse Harry	A. B.	Akron
Fletcher, Josephine Stanley	A. B.	Canton
Flickinger, Eleanor Kathryn	A. B.	Barberton
Flickinger, Helen Louise	A. B.	Cuyahoga Falls
Ford, Josephine	A. B.	Akron
Frith, Clifford Field	A. B.	Roanoke, Va.
Fulton, R. Harrison	A. B.	Akron
German, James William	B. S.	Cuyahoga Falls
Goff, Helen Bernadine	A. B.	Kenmore Sta.
Goff, Sylvania William	A. B.	Kenmore Sta.
Goldberg, Albert	A. B.	Akron
Gregory, Edith Aileen	A. B.	Akron
Harper, Roselle	A. B.	Kenmore Sta.
Harrington, Mary Grace	A. B.	Akron
Harris, Adda Maude	A. B.	Akron
Hoffman, William Earle	B. S.	Akron
Kiefer, Clifford William	A. B.	Kenmore Sta.
Kneale, William Edwin, Jr.	A. B.	Akron
Kodish, Abe	A. B.	Akron
Krug, Lester Eugene	A. B.	Akron
Ladd, Helen Louise	A. B.	Akron
Laurence, James	A. B.	Akron
Lerch, Marian Ellen	A. B.	Akron
Lombardi, Louis Frederick	A. B.	Akron
Lostetter, Marian Frances	A. B.	Akron
Lowen, Ellis Edgar	B. S.	Akron
McCaughy, Amy	A. B.	Akron
McDonald, Ruth	A. B.	Akron
McDowell, Arthur Joseph	A. B.	Akron
McDowell, Edwin Lincoln	B. S.	Akron
Maynard, Edward Alfred	B. S.	Akron
Merrill, Mildred	A. B.	Akron
Miller, Roscoe Harold	A. B.	Oak Harbor
Million, Floyd Blake	A. B.	Akron
Mitchell, Thomas Arthur	A. B.	Akron
Mottinger, LaVerne Arlene	A. B.	Akron
Myers, Elizabeth Prince	A. B.	Akron
Myers, Wilbur H.	A. B.	Akron
O'Neil, Eugene Joseph	B. S.	Akron
Owley, Ruth Virginia	A. B.	Akron
Pardee, Caroline Julia	A. B.	Akron
Parker, Hartwell Ruedy	A. B.	Akron
Patterson, Errett Daniel	A. B.	Akron
Pearson, Norman S.	A. B.	Akron
Pesarick, Mary Agnes	A. B.	Akron
Radam, David	A. B.	Akron
Reinker, Erwin Ellsworth	A. B.	Akron
Roseman, Hyman	A. B.	Akron
Schoch, Otto Ferdinand	A. B.	Akron
Schuster, Robert	A. B.	Akron
Seastead, Arnold Harry	B. S.	Cuyahoga Falls
Shannon, Floyd Eugene	A. B.	Akron

Shibley, Grant Ohio.....	B. S.....	Akron
Smith, Edith Irene.....	A. B.....	Akron
Smith, John D.....	A. B.....	Akron
Stoddard, Louis Ross.....	A. B.....	Akron
Straw, Clayton.....	A. B.....	Akron
Trafford, Helen Carver.....	A. B.....	Akron
Tucker, Margaret Routh.....	A. B.....	Akron
Vanica, Sumner Wayne.....	B. S.....	Akron
Van Sickle, Thomas Edwin.....	A. B.....	Akron
Voige, Suzanne.....	A. B.....	Akron
Wentsler, Norman Edgar.....	A. B.....	Akron
Whelan, John Vincent.....	A. B.....	Franklin, Miss.
Widick, Branko John.....	A. B.....	Akron
Wilde, Bertha Marie.....	A. B.....	Akron
Wright, Harry Lavern.....	B. S.....	Akron
Yood, Marjorie Sarah.....	A. B.....	Akron
Young, Geraldine Carolyn.....	A. B.....	Akron
Zahrt, Marquerite.....	A. B.....	Akron

Men 53; Women 41; Total 94

FRESHMAN CLASS

Affleck, Caroline Amelia.....	Akron	Eden, Kenneth Hower.....	Akron
Anderson, Walter Melvin.....	Akron	Egan, William John.....	Akron
Atwood, Charlotte Cole.....	Akron	Eiber, Alvin George.....	Akron
Ayer, Annetta Louise.....	Tallmadge	Erwine, Robert Martin.....	Akron
Bailey, Howard E.....	Akron	Fanning, James Joseph.....	Akron
Barack, Emma.....	Columbus	Farrington, Robert A.....	Cuyahoga Falls
Battels, William Richard.....	Akron	Fassnacht, Alberta Crawford.....	Akron
Becker, Paul Roger.....	Akron	Fesler, James Clifford.....	Danville
Benedict, Lucius Claude.....	Kenmore Sta.	Finney, Lois Harriet.....	Akron
Bent, Jane.....	Akron	Fobb, Bernard.....	Akron
Bertsch, Mildred Kline.....	Barberton	Foster, Welcome Zettia.....	Akron
Bishop, Deana Hamilton.....	Akron	Galehouse, Jean Utilla.....	Akron
Bixler, Paul Garrett.....	Akron	Gerhart, Anthony Charles.....	Akron
Blackman, Ruth Jeanette.....	Akron	Giegel, John Stanley.....	Akron
Blair, Warren Smith.....	Akron	Glennen, James William.....	Akron
Bonhard, Edith Louise.....	Akron	Goddard, Mac Lee.....	Akron
Bowman, Richard Rodman.....	Akron	Goodman, Leo Mathias.....	Akron
Bridgewater, Mary Ellen.....	Akron	Greenberger, Martin S.....	Akron
Brouse, Marjorie Eleanor.....	Akron	Griffiths, Esther Elizabeth.....	Akron
Cheyney, LaVerne Emerson.....	Kenmore Sta.	Hackett, Phyliss Elizabeth.....	Akron
Collins, Marvin Rudolph.....	Akron	Halliwill, Marjorie Eleanor.....	Akron
Combs, Harold D.....	Akron	Harig, John August.....	E. Akron
Corwin, Harold Denton.....	Akron	Harper, Wylanne.....	Kenmore Sta.
Cotterman, James Roy.....	Akron	Harrell, Fred Olin.....	Akron
Counts, Richard Franklin.....	Brunswick	Harris, Frank Nelson.....	Akron
Creps, Roy C.....	Akron	Hatzis, Lulla.....	Akron
Crum, Charles.....	Akron	Heede, Louise Rosemary.....	Akron
Dapp, Evelyn May.....	Barberton	Herman, Virginia Mae.....	Akron
Dameron, James Edwin.....	Akron	Hester, Clarence Brannon.....	Humberton, N. C.
Davis, Willard Thomas.....	Springfield Road	Hoffman, Catherine C.....	Akron
Deetjen, Jack Van DerWert.....	Akron	Hooper, John.....	Akron
Dellapa, William J.....	Akron	Hosfield, William Howard.....	Akron
Derr, Virginia Bell.....	Akron	Houser, Kermit J.....	Akron
D'Ianni, James Daniel.....	Akron	Hummel, Richard Charles.....	Akron
Diehl, Miriam Alverda.....	Akron	Husted, Donald Robert.....	Warsaw
Dieterich, Robert Reed.....	Akron	Hutchinson, James Paul.....	Akron
Doner, Howard M.....	Akron	Jacobs, Harry Norman.....	Canton
Easton, James William.....	Akron	Jahant, Charles Augustine.....	Akron
Eckard, Arlene Velda.....	Akron	Jameson, George M.....	Akron

Jones, Janice Marland.....	Akron	Ruble, Wade Claire.....	Kenmore Sta.
Kerr, Harriet Marie.....	Akron	Ruffing, Jean Elizabeth.....	Akron
Knapp, Robert Joseph.....	Akron	Ryan, William John.....	Akron
Knecht, Lawrence Geary.....	Akron	Salyerds, Robert John.....	Akron
Kohl, Henry Wilbur.....	Akron	Schneyer, Dorothy Handy.....	Akron
Kruch, William Carl.....	Akron	Schultz, Ernest John.....	Akron
Kulikof, Vladimir James.....	Akron	Schwartz, Jack Alfred.....	Akron
Laughlin, George Thomas.....	Bolivar	Scott, Ella Mildred.....	Akron
Lefkowitz, Sam Hyman.....	Canton	Scott, Hubert Clyde.....	Akron
Leibovitz, Armand Leo.....	Akron	Shaul, Rex Kennedy.....	Akron
Lewis, Mary Catherine.....	Akron	Shoemaker, Ethel Olga.....	Akron
Leighley, Ruth Laura.....	Akron	Short, Eleanor Justina.....	Akron
Linder, Lloyd Gerber.....	Everett	Shriber, Portia Arlene.....	Akron
MacBrair, Jack.....	Akron	Shumer, Oscar Mathew.....	Akron
McClelland, Charles.....	Akron	Simmons, Catherine Whiton.....	Akron
McCormick, Gertrude Louise.....	Cuyahoga Falls	Smith, Claud Raymond.....	Cuyahoga Falls
Maloney, Eugene Thomas.....	Akron	Smith, Harvey Elwood.....	Louisville
Marshall, Chester Ralph.....	Akron	Smith, John Andrew.....	Akron
Marshall, John Wilson.....	Kenmore Sta.	Smith, Mary Heller.....	Akron
Martin, Marjorie.....	Akron	Smith, Otis Justin.....	Akron
Maryanski, William Howard.....	Akron	Smith, Tom.....	Akron
Messmore, Albert Charles.....	Kenmore Sta.	Solomon, Sidney Milton.....	Akron
Metz, Dorothy Elizabeth.....	Akron	Soper, Cleveland Conner.....	Kent
Mikolashek, Harold Rudolph.....	Akron	Sowers, Thelma Kathryn.....	Akron
Miller, Sam Constantine.....	Akron	Spade, Ralph Irvin.....	Akron
Mills, Robert Edward.....	Akron	Stalder, Arlene Marion.....	Akron
Mills, Vera Kathrine.....	Mogadore	Stebick, Harold Anthony.....	Barberton
Minnich, Pauline Ione.....	Barberton	Stevens, Haywood Weston.....	Akron
Mitchell, Harold Samuel.....	Wadsworth	Stombaugh, Dean Rudolph.....	Akron
Moran, Kathryn Mary.....	Akron	Stover, Ellsworth Elmer.....	Kenmore Sta.
Morgan, James Edwin.....	Akron	Susko, Gregory.....	Akron
Mowery, Robert Marshall.....	Akron	Swarts, Samuel Allison.....	Barberton
Murdoch, Robert Charles.....	Akron	Vantilla, Louis.....	Akron
Nostwich, Mildred Joan.....	Akron	Wagner, Henry Anthony.....	Akron
Packan, William Charles.....	Akron	Waldsmith, Bernice Elizabeth.....	Akron
Pamer, John Andrew.....	Akron	Walker, George Alexander.....	Cuyahoga Falls
Patten, Marian.....	Akron	Waxman, Louis.....	Akron
Powell, Valerie.....	Akron	Weaver, Lowell A.....	Akron
Preston, Harley Oliver.....	Cuyahoga Falls	Weiler, John Earl.....	Barberton
Pulos, Peter Thomas.....	Akron	Wheeler, Vaughn V.....	Akron
Putt, Charles Edward.....	Akron	Williams, Terrence Ellsworth.....	Akron
Rabe, Herman Ernest.....	Akron	Winer, Ralph.....	Akron
Read, Helen Elizabeth.....	Akron	Wolfe, Dorothea Blanche.....	Akron
Reed, Robert E.....	Dalton	Wood, Kenneth H.....	Akron
Richards, Harold Franklin.....	Akron	Zeis, Paul M.....	Akron
Rockwell, Joseph Chapin.....	Akron		

Men 118; Women 51; Total 169

IRREGULAR STUDENTS

Augustine, Clarence Edward.....	Akron	Douns, Burton James.....	Akron
Banks, Herman Barnett.....	Akron	Eastman, Eric Ingram.....	Akron
Barker, Bertus Wayne.....	Akron	Gilhooly, James Edward.....	Akron
Bateman, David John.....	Boonville, Ind.	Greer, Frank Harter.....	Akron
Blank, William K.....	Akron	Harris, Richard Rutherford.....	East Akron
Bordages, Anna Marie.....	Beaumont, Texas	Hodge, James Winston.....	Akron
Bowers, John Jesse.....	Akron	Honsaker, Myra C.....	Akron
Dabney, James Edward.....	Cuyahoga Falls	Jones, Marjorie Isabella.....	Akron
Davison, Marion Frances.....	Akron	Kempel, George Paul.....	Akron
DeCamp, Emily.....	Akron	Kline, Willard Don.....	Barberton
Diaconoff, Andre.....	Akron	Kosch, Kermit Lawson.....	Akron

Looker, Jack Byrd.....Akron	Sheard, Richard David.....Akron
Nolan, Fay.....Akron	Snider, Joy Alfred.....Akron
Oldham, Kenneth Rice.....Wooster	Todoran, George Andrew.....Canton
Price, Jesse Ray.....Akron	Ward, Verner George.....Lorain
Rosenfeld, Hannah.....Akron	

Men 24; Women 7; Total 31

SPECIAL STUDENTS

Bergin, Edmund Robert.....Akron	Nolley, Gilbert Talmadge.....Akron
Clapper, Horace Greeley.....Akron	Roberts, Virgil Hays.....Akron
Cox, Roger Perry.....Akron	Samara, Elias Demster.....Akron
Crawford, Grace Hower.....Akron	Shaffer, Emmert Samuel.....Akron
Dunn, Carl A.....Akron	Swearengin, Willard Patterson.....Akron
Foltz, Bessie Mildred.....Akron	Swisher, Paul R.....Akron
Grubb, Deborah Elaine.....Akron	Sykes, Harry Allen.....Creston
Kaplan, Hirsh.....Akron	Tobakin, Grace Goldie.....Akron
McConaughy, Thomas B.....Massillon	Wolcott, Mrs. Metta.....Akron
Mizel, Ben.....Canton	Wortley, Marjorie Turner.....Akron
Moss, Jack.....Akron	Wulfek, Wallace H.....Akron

Men 16; Women 6; Total 22

CURTIS SCHOOL OF HOME ECONOMICS

SENIOR CLASS

Read, Janet.....Akron

Women 1

JUNIOR CLASS

Frederick, Lois Irene.....Akron
Gustofson, Harriet Marie.....Akron
Smith, Mildred Eugenia.....Akron

Women 3

SOPHOMORE CLASS

Corbett, Laurene Dotson.....Akron
Courtney, Maude Teresa.....Akron, R. D.
Hissem, Ruby Lucile.....Akron, R. D.

Women 3

FRESHMAN CLASS

Crane, Mary Esther.....Barberton
Crawfish, Rosemary.....Akron
Eason, Nedra Clare.....Akron
Knapp, Marjorie Agnes.....Akron
McNeill, Gladys.....Washburn, W. Va.

Women 5

SPECIAL

Dunford, Lucille.....Akron

Women 1

COLLEGE OF ENGINEERING AND COMMERCE

DEPARTMENT OF ENGINEERING

C. E.—Civil Engineering
 E. E.—Electrical Engineering
 I. E.—Industrial Engineering
 M. E.—Mechanical Engineering
 Engr.—Course not elected

SENIOR CLASS

	Course	
Benedict, Merland Henry	C. E.	Medina
Benseler, William	E. E.	Hanover, Germany
Broxon, Robert Edgar	M. E.	Cincinnati
Clark, George Gerald	E. E.	Akron
Fisher, Leland V.	M. E.	Akron
Hanna, Elmer	E. E.	Akron
Hilbish, Harold E.	M. E.	Akron
Hite, Glenn Oberlin	E. E.	Akron
Hodson, Clinton Aloysius	M. E.	Akron
Hoffman, Wilbur	E. E.	Akron
Lambert, Edward S.	I. E.	Akron
Medvedeff, Nicholas S.	E. E.	Akron
Miller, Lawrence E.	C. E.	Akron
Sisler, Harlin G.	M. E.	Akron
Symms, Samuel Y.	C. E.	Peterstown, W. Va.
Talisman, Volco	C. E.	Russia
Viall, Carl Sylvester	C. E.	Akron
Wagner, John Forest	C. E.	Marshallville
Williams, Frank M.	C. E.	Kane, Pa.
Wilson, Wendall Oliver	E. E.	Akron
Woodward, William Brooks	E. E.	Kenmore

Total, 21 Men

JUNIOR CLASS

Auten, Delbert E.	M. E.	Akron
Badonsky, Paul	C. E.	Akron
Brennon, Louis Joseph	E. E.	Kenmore
Brewster, Todd Wayne	E. E.	Akron
Buckley, John Harrison	M. E.	Akron
Buffington, Gerald Edward	E. E.	Vicco, Kentucky
Chenot, John R.	E. E.	Akron
Christoff, Elias Constantine	E. E.	Akron
Dice, William Merrill	M. E.	Akron
Dickinson, Nell Kenneth	E. E.	Medina
Durant, Arthur Hervey	M. E.	Akron
Hunt, Allison Orvis	M. E.	Wooster
Koehler, Henry	E. E.	Akron
Kraft, Theodore Andrew	E. E.	Akron
Krause, Floyd Carl	M. E.	Akron
Manson, Finley James	M. E.	Akron
Moore, James Russell	C. E.	Kent
Nye, Benjamin Elmer	M. E.	Sharon, Pennsylvania
Oldham, Albert Henry	M. E.	Akron

Ransom, Jay William	M. E.	Bryan
Richardson, John	C. E.	Akron
Salner, Edward	I. E.	Akron
Sawdy, Gordon F.	M. E.	Andover
Scharenberg, Elmer Milton	C. E.	Everett
Schroeder, Ben G.	I. E.	Akron
Schroeder, Harold Henry	E. E.	Freelandville, Indiana
Schutz, Emil	E. E.	Akron
Seifried, Anton George	E. E.	Kenmore
Shively, Harmon G.	E. E.	Akron
Snyder, Millard Sylvester	M. E.	Akron
Springston, Clifford Dennis	E. E.	Cuyahoga Falls
Suloff, Karl Frank	M. E.	Akron
Walker, Charles Edward	M. E.	Cleveland
Walters, Ellsworth Clement	M. E.	Tallmadge
Woodrow, Ernest J.	C. E.	Washington, D. C.
Total, 35 Men		

PRE-JUNIOR CLASS

	Course	
Bair, Lawrence Vernon	E. E.	Medina
Bechtol, Paul Shreckengast	E. E.	Bellwood, Pa.
Buckley, Alan Gillan	M. E.	Akron
Davis, Robert Martin	M. E.	Akron
DeYoung, Russell	I. E.	Akron
Fall, Amos William	M. E.	Port Clinton
Falls, Eugene Kely	M. E.	Kent
Fish, Herbert Raymond	M. E.	Akron
Gerber, Russell Arthur	E. E.	Akron
Germann, William Joseph	I. E.	Akron
Gillespie, Marshall Ford	I. E.	Akron
Gospodinoff, Nedelcho	M. E.	Bulgaria
Hoffman, Thelma	E. E.	Akron
Honeywell, Alba M.	M. E.	Milford, Illinois
Ippoliti, Joseph Emil	C. E.	Dillonvale
Johnson, Wallace Harold	M. E.	Akron
Kochel, Robert Kenneth	M. E.	Orrville, Ohio
Kuebler, William Otto	I. E.	Lakewood
Leibowitz, Sol	E. E.	Akron
Leshinsky, Isadore	I. E.	Akron
Lindholm, Jalmer J.	C. E.	Dorset
Major, Robert Lee	M. E.	Akron
Major, Thomas Elwood	M. E.	Peninsula
Miletti, Louis Fred	E. E.	Akron
Moody, Ralph James	M. E.	Akron
Murphy, George Patrick	C. E.	Akron
Poole, Donald S.	M. E.	Akron
Ream, Frank E.	M. E.	Akron
Salner, Victor Eugene	E. E.	Akron
Schwarzmueller, Harry	C. E.	Buffalo
Shively, Russell Dewitt	E. E.	Akron
Smeal, Maldine Wayne	M. E.	Akron
Stafford, Francis William	C. E.	Akron
Suttkus, Henry	M. E.	Orrville
Watson, John Graham	M. E.	Akron
White, Clarence Elton	E. E.	Jamestown, New York
Williams, Paul Armstrong	C. E.	Akron
Woodward, Foster R.	M. E.	Akron
Men 37; Women 1; Total 38		

SOPHOMORE CLASS

	Course	
Allard, Carroll Preston	C. E.	Sharon Center
Andrus, Jack LeRoy	M. E.	Akron
Arnold, George William	E. E.	Buffalo, New York
Bachtel, Kenneth Edward	C. E.	Kenmore
Boyd, William John	E. E.	Cuyahoga Falls
Bunts, Louis Edward	M. E.	Akron
Carillon, Frank R.	E. E.	Apple Creek
Chapman, Howard G.	E. E.	Sharon Center
Christman, Francis	C. E.	Akron
Corvington, Anthony Jules	C. E.	France
Cross, Sherman	M. E.	Akron
DeLano, Chester Camp	M. E.	Akron
Fink, Herbert Henry	C. E.	Akron
Firth, Horace Webb	M. E.	Charleston, W. Va.
Galloway, Francis Laverne	M. E.	Peninsula
Gangl, Eugene	E. E.	Akron
Higgins, Bernard James	M. E.	Orrville
Higgs, Harold Thomas	C. E.	Akron
Johnson, Everett Forest	E. E.	Akron
Jones, James Edward	E. E.	Massillon
Kamp, Virgil Richard	M. E.	Akron
Lorenz, Walter Arthur	E. E.	Mantua
MacClellan, Malcolm W.	M. E.	Akron
McCullough, Harry Alexander	M. E.	Lancaster, Pennsylvania
Marcinkoski, Frank	E. E.	Akron
Moeller, Howard Louis	M. E.	Akron
Peterson, Walter K.	C. E.	Akron
Preusse, Robert E.	M. E.	Akron
Quinn, Gerald Summers	M. E.	Akron
Renninger, Terry Donald	I. E.	Uniontown
Resseger, Bernard	I. E.	Akron
Ries, Robert Albert	E. E.	Akron
Roeger, Earl Archibald	C. E.	Akron
Roos, Carl L.	M. E.	Sharon, Pennsylvania
Sagadencky, Samuel Thomas	C. E.	Akron
Salyerds, Ronald Clifford	E. E.	Akron
Schieber, Henry John	E. E.	Akron
Schmittgen, Willard John	I. E.	Elyria
Schubert, John Arnold	M. E.	Akron
Shepherd, Darrell R.	I. E.	Portland, Indiana
Shook, Donald Hartman	M. E.	Akron
Spade, Russel E.	C. E.	Akron
Sparks, Paul Emerson	C. E.	Akron
Stine, William Virgil	C. E.	Litchfield
Surbey, Charles Wade	C. E.	Akron
Syracopoulos, Philip	E. E.	Akron
Waddell, Robert Grove	I. E.	Akron
Wansky, Morris Harold	M. E.	Akron
Wansky, Simon	I. E.	Akron
Warden, Ralph	E. E.	Akron
Watkins, Henry F.	M. E.	Canton
Werner, Howard Louis	M. E.	Lorain
Wykoff, Ralph Charles	I. E.	Akron
Yarian, Harold David	E. E.	Rootstown
Voder, Kermit Stanley	C. E.	Orrville

Total, 55 Men

THE UNIVERSITY OF AKRON

FRESHMAN CLASS

	Course	
Allen, John William	C. E.	Akron
Anthony, Arthur	I. E.	Massillon
Barkwill, Harold Kester	M. E.	Akron
Beck, Howard George	C. E.	Akron
Britsch, Donald Theodore	I. E.	Akron
Buchtel, Kenneth Albert	Engr.	Akron
Campbell, William Lish	I. E.	Brilliant
Chesnut, Norman O'Neal	C. E.	Akron
Chittenden, Walter William	E. E.	Akron
Church, Henry Eugene	Engr.	Chagrin Falls
Clark, Maurice Davis	C. E.	Akron
Compton, David Lamson	C. E.	Akron
Conger, Arthur Boylan	M. E.	Peninsula
Coorsh, Daniel	E. E.	Akron
Davidson, Wilbur George	Engr.	Akron
Davisson, Gale	M. E.	Morgansville, W. Va.
DiMascio, Dominic Cosmos	M. E.	Akron
DuPratt, Norman	M. E.	Akron
Eckley, Norman William	Engr.	Akron
Fiorenzo, Samuel J.	M. E.	Ravenna
Fuller, Max Parkerson	E. E.	Hudson
Gerin, Harry	Engr.	Akron
Gilletly, Maynard William	Engr.	Cuyahoga Falls
Grady, John Edward	Engr.	Akron
Graham, William Ralph	E. E.	Virginia Beach, Va.
Grosjean, Ralph	E. E.	Orrville
Hagans, Carl	E. E.	Akron
Hall, Clifford John	M. E.	Akron
Harpley, Raymond Stein	M. E.	Bath
Hartz, Raymond Joseph	C. E.	Akron
Herholz, Richard Christoph	Engr.	Akron
Himelrigh, William Charles	Engr.	Barberton
Jones, Eugene Wise	Engr.	Henderson, Ky.
Katz, Albert	Engr.	Akron
Keller, Russel Jacob	Engr.	Akron
Kepler, Orren James	Engr.	Akron
Koval, Jack	C. E.	Freeport
Landis, Frank Calvin	C. E.	Doylestown
Legar, Frank T.	I. E.	Parrish, Ala.
Lovering, Joseph Gerald	E. E.	Nankin
Luyster, Harry Oliver	C. E.	New Philadelphia
McFarland, Robert Malcolm	C. E.	Cleveland
McKisson, Earl Emerson	C. E.	Everett
Martz, Ronald	C. E.	Akron
Mavropolos, Arthur	M. E.	Akron
Metzger, Alfred H.	M. E.	Akron
Miller, Lemuel E.	C. E.	Akron
Mueller, John Eric	M. E.	Akron
Myers, George J.	C. E.	Akron
Nixon, Boris Chester	M. E.	Akron
Norris, Harvey Ogden	C. E.	Kenmore
Oliver, Louis Charles	Engr.	Akron
Patterson, Robert Elder	Engr.	Akron
Pero, George F.	M. E.	Suffield
Perry, Gordon Wilbur	M. E.	Akron
Pofahl, Raymond Harold	E. E.	Akron
Porosky, George Edmund	Engr.	Cuyahoga Falls
Read, Robert Ranney	M. E.	Cuyahoga Falls

Renninger, Ronald Cyrus	I. E.	Uniontown
Ripley, Glenn Spartan	Engr.	Canal Fulton
Ritzert, James Francis	E. E.	Akron
Roesch, Harold Adam	E. E.	Sandusky
Rokus, Frank George	M. E.	Akron
Romito, Alvin Sylvester	Engr.	Cuyahoga Falls
Ruch, John Earl	E. E.	Akron
Safi, Edward	C. E.	Akron
Salber, Joseph Patrick	M. E.	Akron
Schapiro, Norbert Jacob	C. E.	Wadsworth
Sheffield, Vernon Lee	E. E.	Ravenna
Shelestovich, Leo	M. E.	Akron
Simon, Victor Howard	M. E.	Orrville
Slider, Robert Arnold	Engr.	Mogadore
Smith, William James	E. E.	Evansville, Indiana
Strahl, Frank H.	M. E.	Ravenna
Swartz, Curtis Raymond	M. E.	Suffield
Swartz, Fred Edwin	I. E.	Mogadore
Symms, Clarence	C. E.	Peterstown, W. Va.
Triplett, Dean Franklin	M. E.	Akron
Trombley, Russell Cleveland	Engr.	Akron
Tyner, Lyle L.	E. E.	Overbrook, Kansas
Unser, Clifford Waldo	M. E.	Akron
Unverzagt, George Philip	Engr.	Kenmore
Vallen, Richard Keith	M. E.	Ghent
Viers, Glenn Raymond	C. E.	Akron
Waldman, Jack Louis	Engr.	Akron
Weltzien, Victor	E. E.	Wadsworth
Wilson, Harold Woodrow	Engr.	Akron
Total, 87 Men		

IRREGULAR STUDENTS

Course		
Bonham, Claude F.	M. E.	Sunbury
Pickton, Frederick Charles	Engr.	Akron
Simmons, George Hezzelton	Engr.	Akron
Turner, Harold Earl	Engr.	Akron
Total, 4 Men		

SPECIAL STUDENTS

Cummins, Clarence R.	Engr.	Cuyahoga Falls
Martin, Ned	M. E.	Akron
Martin, Stanley Harold	Engr.	Greenville, Pa.
Snyder, Howard M.	I. E.	Barberton
Total, 4 Men		

COMMERCE AND BUSINESS ADMINISTRATION

SENIOR CLASS

Benson, George E.	Akron	Herrick, Earl Victor	Akron
Black, Paul Eugene	Akron	Hlas, John Peter	Barberton
Chapin, Maurine	Akron	Little, William Owen	Akron
Crum, Allen Samuel	Akron	Neil, James Charles	Akron
Favinger, Clarence Means	Akron	Place, Frederick Andrew	Akron
Godlesky, Vincent Walter	Athol, Mass.	Rogers, David Crum	Bucyrus
Hampel, Louis Frederick	Akron	Zahniser, Robert Elmer	Akron
Men 13; Women 1; Total 14			

JUNIOR CLASS

Adams, James F.....	Akron	Morris, Donald Robert.....	Akron
Alexander, Robert M.....	Canton	Myers, Donald Herman.....	Akron
Black, Robert Elmer.....	Akron	Porter, John Edwin.....	Akron
Booth, Richard Francis.....	Akron	Rogers, Cecil Albert.....	Akron
Demko, Michael Paul.....	Akron	Savage, Harold William.....	Akron
Ensign, Hadley N.....	Akron	Schlemmer, Robert Meade.....	Akron
Gordon, Jacob.....	Akron	Secrest, Burt Theodore.....	Akron
Hale, Edward Loren.....	Solon	Suitt, Samuel R.....	Durham, N. C
Harding, Clarence G.....	Kenmore	Thatch, John.....	Akron
Hunter, Harold Robert.....	Cuyahoga Falls	Thatcher, John.....	Akron
Kodish, Louis.....	Akron	Turina, Irvin Walter.....	Akron
McCallops, David Albert.....	Akron	Waggoner, Robert Hugh.....	Akron
Meadows, Rodger McMorgan.....	Akron	Walkup, William Edmund.....	Akron
Meadows, Rufus James.....	Akron	Witwer, Frank Cyrus.....	Akron
			Total, 28 Men

SOPHOMORE CLASS

Carper, Frank William.....	Akron	Jones, Paul J.....	Akron
Ellis, Albert M.....	Ellicottville, N. Y.	LoCascio, Joseph.....	Akron
Fisher, Wilbur G.....	Akron	Middleton, Arnold.....	Akron
Flaugher, Frank Vernol.....	Akron	Nelson, Richard Thomas.....	Akron
Frantz, Harry Wilbur.....	Akron	Ostroff, Samuel.....	Akron
Gray, Donald Joseph.....	Akron	Ott, Albert M.....	Akron
Hamlin, Robert Evans.....	Akron	Palmer, Francis William.....	Akron
Harry, Winchester.....	Akron	Robb, James Edward.....	Kenmore
Hartz, Gilbert Arthur.....	Akron	Roberts, Kenneth.....	Akron
Hennesy, Harold Francis.....	Akron	Smelser, Eugene Richard.....	Akron
Holcomb, Herbert Leslie.....	Akron	Sullivan, Louis Harold.....	Akron
Husted, Lawrence Kissner.....	Warsaw, Ohio	Weber, Fred Charles.....	Akron
			Total, 24 Men

FRESHMAN CLASS

Abood, Albert.....	Copley	Klein, Herman Fred.....	Akron
Alexander, Jay.....	Copley	Krumroy, Thorald Foster.....	Akron
Bachman, Carl Joseph.....	Akron	Lockert, Robert Parker.....	Akron
Bates, E. Franklin.....	Akron	Lombardi, Angelo Frank.....	Akron
Berman, Leonard Judah.....	Akron	Martin, Aaron.....	Akron
Bierce, Lucius V.....	Tallmadge	Mendelson, Morris.....	Akron
Brommelhaus, Vincent Henry.....	Akron	Miller, Edwin Elwood.....	Akron
Brooks, Jacob Charles.....	Akron	Mowrer, Ralph.....	Akron
Brown, Adolph.....	Akron	Myers, John Irison.....	Akron
Carrier, James Harvey.....	Akron	Nesbitt, Clark R.....	Akron
Clare, W. James.....	Akron	Nigh, Jack D.....	Akron
Coddington, Wilfred Ronald.....	Akron	Parsons, Edward Longley.....	Akron
Curnow, John James.....	Akron	Petersen, Niels Christian.....	Cuyahoga Falls
DeBaer, Leon Jacob.....	Akron	Peterson, Leo.....	Akron
Falls, Joseph Karl.....	Kent	Plumer, Robert Norman.....	Akron
Gharky, Irving S.....	Akron	Porter, Jack D.....	Akron
Gore, Gilbert Franklin.....	Akron	Rolph, Harold William.....	Akron
Hazle, Glenn.....	Cuyahoga Falls	Roth, Earl Albert.....	Akron
Horn, Frederick Ernest.....	Akron	Sandberg, Loraine Alexander.....	Akron
Hudson, Harold Lawrence.....	Brooklyn, N. Y.	Sloat, Ralph Monroe.....	Akron
Jessop, Charles Augustus.....	Akron	Snyder, Harry.....	Akron
Johnson, Byron.....	Akron	Speck, Leroy Alfred.....	Akron
Killian, Gerald Michael.....	Akron	Strickler, Paul Wood.....	Cuyahoga Falls
Kistler, Eugene Wait.....	Akron	Sutton, Richard Karl.....	Shadyside

Sweeny, Dow Edward.....Akron	Venner, Harry E.....Akron
Tabakin, Samuel Herbert.....Akron	Weiss, Sydney Lawrence.....Akron
Tatch, Robert.....Akron	Williams, Leonard Frank.....East Liverpool
Tillett, Charles Merthyn.....Akron	Wolfe, William Earl.....Bedford, Pa.
Usher, George James.....Akron	Total, 59 Men

IRREGULAR STUDENTS

McCaslin, Frank.....Kent	Thomas, Maynard.....Akron
MacGregor, James Robert.....Akron	Total, 3 Men

SPECIAL STUDENTS

Bechtol, John Alvin.....Bellwood, Pa.	Oprian, George Isadore.....Akron
Bird, Thomas Whittier.....Horse Shoe, N. C.	Shaw, Perry A.....Akron
Gruccio, Joseph.....Akron	Yasosky, George James.....Akron
Morgan, David.....Pittsburg, Pa.	Total, 7 Men

SECRETARIAL SCIENCE

SENIOR CLASS

Sapp, Dora V.....Akron

JUNIOR CLASS

Armstrong, Catherine Jane.....Akron
Clark, Frances Adelaide.....Akron
Orr, Grace.....S. Attleboro, Mass.
Schlemmer, Josephine.....Kenmore
Starner, Geraldine Leona.....Akron
Total, 5 Women

SOPHOMORE CLASS

Baird, Alice Elizabeth.....Akron	Moskovitz, Ruth Mildred.....Akron
Bitter, Esther M.....Akron	Nighman, Miriam Louise.....Cuyahoga Falls
Danford, Dorothy M.....Akron	Presswell, Cosette Bernice.....Kenmore
Daugherty, Thomas Shisler.....Akron	Reaven, Shirley.....Akron
Flint, Anna Mae.....West Webster, N. Y.	Souers, Gertrude.....Akron
Gangl, Ethel Helen.....Akron	Stall, Laura Elaine.....Akron
Hine, (Mrs.) Hazel E.....Akron	Stedman, Marion Edith.....Akron
	Men 1; Women 13; Total 14

FRESHMAN CLASS

Bernard, Genevieve Elizabeth.....Barberton	Hoopes, Lois Eleanor.....Akron
Billman, Dorothy Leila.....Akron	Jenkins, Margaret Ellen.....New Philadelphia
Bishop, Florence.....Akron	Keiser, Etha Mae.....Akron
Bishop, Lois.....Akron	Kelly, Eileen Louise.....Akron
Boyer, Mary Virginia.....Portland, Oregon	Kopf, Margaret Ernestine.....Akron
Cohen, Sayde.....Akron	Leavenworth, Helen Porter.....Akron
Darraha, Helen Mae.....Barberton	Manthey, Mathilde Catherine.....Akron
Davies, Violet Lucile.....Akron	Myers, Wayne Leone.....Kenmore
Deacon, Dawne Elsie.....Akron	Rector, Billie Inez.....Akron
Eshleman, Romaine Louisa.....Akron	Reed, Ellen L.....Akron
Flint, Bernice Alice.....W. Webster, N. Y.	Schaeffer, Elizabeth.....Akron
Funk, Cleo.....Akron	Schwartz, Marie Lucille.....Akron
Hall, Lucille Anne.....Akron	Smith, Helen Mae.....Akron
Heller, Marion Arland.....Akron	Spratt, Elizabeth Bula.....Akron
Heppberger, Mary Catherine.....Atwater, Ohio	Wilson, Ellen Mary.....Akron
	Men 1; Women 29; Total 30

SPECIAL STUDENT

Davis, Helen Louise.....Hendricks, W. Va.

THE TEACHERS COLLEGE

GRADUATE STUDENTS

Capps, Amy Alta.....	Akron
A. B., Ohio Wesleyan University.	
Ferris, Aretha Faye.....	Quapaw, Okla.
B. F. A., University of Missouri.	
French, Jeanette Charlotte.....	Akron
B. A., Western College for Women.	
Fuller, Belle.....	Akron
B. S., The University of Akron.	
Helwig, Corinne C.....	Akron
A. B., The University of Akron.	
Hottenstein, Frances Carmichael.....	Akron
B. S., The University of Akron.	
Jerhovich, Gizella.....	Wadsworth
A. B., Oxford College for Women.	
Krohngold, Rae Cyril.....	Akron
A. B., The University of Akron.	
Lyon, Hamann.....	Akron
B. A., B. S., E. E., University of Michigan.	
Plotkin, Louise.....	Akron
A. B., The University of Akron.	
Schuller, Katherine Burgan.....	Akron
A. B., Butler University.	
Walker, Muriel Hughes.....	Akron
A. B., Wooster College.	
Whiteman, Henry H.....	Akron
M. E., The University of Akron.	
Wilcox, Richard Parker.....	Mogadore
B. S., The University of Akron.	
Witzeman, B. Evangeline.....	Akron
B. S. in Home Ec., The University of Akron.	
Zink, Stanley Frank.....	Akron
A. B., Baldwin Wallace College.	

Men 4; Women 12; Total 16

SENIOR CLASS

Adams, Jennie Hanson.....	Akron	Cardarelli, Anna Josephine.....	Akron
Ahern, Rose Louise.....	Akron	Christenson, Bernice Ruth.....	Akron
Allen, Gertrude Ceclia.....	Akron	Davenport, Winifred.....	Silver Lake
Armocost, Kathryn Gertrude.....	Akron	Emmons, Paulyne Drabelle.....	Fairlawn
Barnholth, Claude Robert.....	Akron	Ewing, Dorothy.....	Akron
Baughman, Doris Elizabeth.....	Akron	Fischer, Mary Louise.....	Tallmadge
Bissell, Lillias Bishop.....	Akron	Flint, Eldora Helen.....	Akron
Bolton, Alice Close.....	Akron	Fox, Jennie.....	Akron
Braunstein, Katle.....	Akron	Fox, Virginia Wilcox.....	Akron

Hall, Robert Parke.....	Akron	Montgomery, Edwin Austin.....	Akron
Heepe, Ethel Marie.....	Akron	Myers, Donna.....	Wooster
Hoch, Louise Conrath.....	Akron	Poppenger, Blanche Bertha.....	Akron
Hood, Margaret Helen.....	Akron	Reiter, Alma Mary.....	Akron
Hosfield, Henry Luther, Jr.....	Akron	Richards, Marie Louise.....	Akron
Hurst, Olive Wilson.....	Akron	Sanderson, Dorothy Chloral.....	Akron
Hutz, Elonet Amella.....	Akron	Sheinin, Katherine.....	Akron
Jones, Margaret Annabelle.....	Akron	Snyder, Anne.....	Akron
Johnson, Ruth Elizabeth.....	Akron	Spessard, Carl Dick.....	Akron
Keep, Haskell Harold.....	Dorset	Stroman, Doris Akers.....	Akron
Keller, Ruth Edna.....	Akron	Sullivan, William Cornelius.....	Stryker
Kennedy, Emily Virginia.....	Peninsula	Thompson, Sarah Elizabeth.....	Andover
Knabe, Leona Ruth.....	Akron	Tobarsky, Mollie F.....	Akron
Koegel, Louisa.....	Akron	Watkins, Pauline Lucille.....	Wadsworth
Koester, Lillian A.....	Akron	Weber, Fanny Margaret.....	Akron
Koester, Marie J.....	Akron	Williams, Evelyn May.....	Akron
McCallops, Dorothy Zoe.....	Akron	Wilson, Mary Catherine.....	Akron
McCown, Anna Mae.....	Akron	Winter, Margery Jane.....	Akron
McLean, Isabelle Allen.....	Akron	Young, Ruth DuShane.....	Tallmadge
Metzger, Frances Irene.....	Greentown		Men 7; Women 50; Total 57

JUNIOR CLASS

Armacoast, Mildred E.....	Akron	McGinnis, Ruth Stonestreet.....	Little Otter, W. Va.
Beese, Helen Elizabeth.....	Uniontown	Mahoney, Elizabeth.....	Akron
Bell, Roscoe R.....	Barberton	Major, Hallie Welton.....	Peninsula
Black, Clara May.....	Akron	Marggraf, Edward Ewald.....	Akron
Bolinger, Ruth M.....	Flinton, Pa.	Marxen, Elsie.....	Akron
Braunstein, Anne.....	Akron	Nathanson, Albert.....	Akron
Buntz, Wava Audrene.....	Akron	Palmer, Ellen Frances.....	Akron
Campbell, Gladys Truesdale.....	Akron	Pearce, Verena Queen.....	Akron
Carey, Alice Beatrice.....	Akron	Petley, Harriet Louise.....	Kenmore Sta.
Cooper, Alice Margaret.....	Akron	Porter, Nellie Thornburgh.....	Akron
Currie, Beatrice Elizabeth.....	Akron	Rians, Dorothy Jane.....	Akron
Daitch, Jack Harry.....	Akron	Rife, Mary Ruth.....	Akron
Deck, Frances Margaret.....	Akron	Rinaldo, Joseph Nicholas.....	Magnolia
Dethloff, Lillian Wagner.....	Akron	Ruttman, Josephine Dietz.....	Akron
Dickinson, Vivian Mae.....	Peninsula	Schiller, Florence Jean.....	Akron
Dienoff, Phillip.....	Akron	Schultz, Rosalind Pearl.....	Cuyahoga Falls
Elliott, Elizabeth Iris.....	Cuyahoga Falls	Schwartz, Celia Helen.....	Cuyahoga Falls
Frye, Harold Eugene.....	Akron	Schwartz, Irene Lillian.....	Akron
Funk, David Stanley.....	Newville, Pa.	Seikel, Lucile Riley.....	Akron
Griffin, Alice Helen.....	Akron	Sloop, Harold.....	Akron
Griffith, John C.....	Akron	Smith, Blanche Flaherty.....	Akron
Haines, Ruth Elizabeth.....	Akron	Snyder, Margaret Emma.....	Akron
Hale, Mary Staley.....	Akron	Stahl, Katheryne Mary.....	Kenmore Sta.
Hall, Marion Neuzil.....	Cleveland	Stedman, Virginia Martha.....	Akron
Hammond, Wayne Celian.....	Kenmore Sta.	Trommer, Ruth Marie.....	Akron
Hawkins, Edna Marie.....	Akron	Walsh, Marian Margaret.....	Akron
Heintz, Eleanor May.....	Akron	Wharton, Kathryn Elizabeth.....	Akron
Hoffman, Elizabeth Margaret.....	Akron	Williams, Irene.....	Akron
Hunsicker, Juanita Caroline.....	Kenmore Sta.	Wolf, Alice Eleanor.....	Akron
Jones, Sarah Helen.....	Akron	Wozniak, Genevieve Mary.....	Akron
Kepler, Beatrice.....	Akron	Zahniser, Kenneth Clair.....	Kenmore Sta.
Kuehler, Marian Elsie.....	Akron		Men 13; Women 51; Total 64
Lachman, William Frederick.....	Akron		

SOPHOMORE CLASS

Allbright, Kathryn Elizabeth.....	Akron	McGailey, Bernadette Marie.....	Akron
Apel, Doris Jean.....	Akron	McGuire, Ruth Elizabeth.....	Akron
Avery, Virginia Harriet.....	Akron	Mascola, Josephine Anna.....	Akron
Belms, Sophia Marie.....	Akron	Miller, Lucille Marie.....	Akron
Bergen, Elizabeth.....	Akron	Moore, Mary Elizabeth.....	Akron
Berglund, Edwin G.....	Akron	Moore, Nellie Jane.....	Akron
Boyd, Antoinette Laura.....	Akron	Oldham, Mary Josephine.....	Akron
Burch, Thelma Lucile.....	Akron	Patton, Emma Ruth.....	Akron
Church, Mary Eloise.....	Ellet Sta.	Piazza, Josephine Agnes.....	Akron
Cochran, Kenneth.....	Akron	Plant, Betty Ruth.....	Akron
Coddington, Mary Lucille.....	Akron	Plum, Esther Irene.....	Akron
Cogan, Madeline Mary.....	Akron	Porter, Mary Elizabeth.....	Akron
Corbett, Ruth Mabel.....	Akron	Rahner, Donna.....	Akron
Crane, Lionel Gail.....	Akron	Reed, Helen Elizabeth.....	Akron
Cunningham, Dortha May.....	Akron	Russell, Henrietta Irene.....	Akron
Davis, Anna Louise.....	Akron	Sarchet, Elizabeth Fae.....	Akron
Davis, Lois Ann.....	Akron	Schaefer, Orien Clifford.....	Kenmore Sta.
DeLaney, Edith Estelle.....	Akron	Seenberg, Ada.....	Akron
Dix, Ruth Stevenson.....	Akron	Shollenberger, Albert Luther.....	Tyrone, Pa.
Dobbins, Anne Margaret.....	Akron	Smith, Lucille Jessie.....	Warsaw
Dye, Dolores Mary.....	Akron	Souers, Gene.....	Akron
Ellis, Nina Minnie.....	Akron	Sumtimer, Juanita Una.....	Mt. Vernon
Florin, Ignatius Joseph.....	Akron	Switzer, Ronald Earl.....	Akron
Freas, Helen Elizabeth.....	Akron	Talis, Ida.....	Akron
Gilletly, Donald Ewing.....	Sterling	Thomas, Harold Ray.....	Akron
Goehler, Charles Ralph.....	Akron	Thomas, Marion Gertrude.....	Akron
Gonder, Evelyn Ruth.....	Akron	Thompson, Aida Beth.....	Akron
Grimshaw, Lily.....	Akron	Tragler, Marjorie Ruth.....	Akron
Groves, Daisy Mildred.....	Calhoun, Ky.	Ullett, Gertrude R.....	Sparta
Halter, Marie Agnes.....	Akron	Vaughan, Elizabeth Lawton.....	Akron
Harwell, Mary Juliett.....	Akron	Wade, Margaret Elizabeth.....	Akron
Harcek, Catherine Margaret.....	Akron	Waller, Georgena Josephine.....	Akron
Huber, Ann Nina.....	Akron	Waugh, Nina Aldene.....	Akron
Hull, Wayne Duncan.....	Copley	Webster, Vashni Edward.....	Akron
Irvin, Mary Elizabeth.....	Cuyahoga Falls	Wharton, Florence M.....	Akron
Johnson, Edith Victoria.....	Akron	White, Eula Lee.....	Akron
Karlo, Alice Ruth.....	Mogadore	Wigley, Virginia Jean.....	Akron
Kennedy, Pauline Lucille.....	Akron	Wise, Raymond Shirey.....	Akron
Kepler, Dorothy.....	Akron	Woodburn, Margaret.....	Bellevue, Pa.
Kerr, Mida Elizabeth.....	Akron	Woolcock, Cyril William.....	Akron
Knott, Pearl Evelyn.....	Akron	Zemlansky, Olga Magdalene.....	Akron
Lloyd, Eleanor Ruth.....	Akron		
MacGregor, Elizabeth Emily.....	Akron		

Men 15; Women 69; Total 84

FRESHMAN CLASS

Armocost, Mary Elizabeth.....	Akron	Burnham, Genevieve Roberta.....	Akron
Armogida, Katherine Mary.....	Canton	Camp, Verda Ruth.....	Barberton
Bachman, Clara Marie.....	Akron	Carey, Ruth Miriam.....	Akron
Bailey, Edna Alice.....	Akron	Carey, Alice Jeane.....	Akron
Balasco, Thresa.....	Akron	Caton, Elizabeth Kathryn.....	Akron
Bergstrand, Bernice Bower.....	Akron	Chapman, Herman.....	Akron
Blowers, Virginia.....	Akron	Chordar, Angelin.....	Akron
Bordner, Sara.....	Akron	Chordar, Milan Bereth.....	Akron
Bourquin, Margaret May.....	Akron	Clarke, Leroy Reade.....	Akron
Boyd, Virginia Mae.....	Barberton	Cleary, Aileen Marie.....	Akron
Bray, Mabel Medora.....	Akron	Cohen, Abe Stanley.....	Akron
Brown, Dorothy Hannah.....	Akron	Cohen, Celia.....	Akron
Buckmaster, Dorothy.....	Akron	Cool, Jane.....	Akron

Coolman, Sylvia Madelyn.....	Akron	Marconi, Albert Paul.....	Akron
Coup, Nancy Ann.....	Akron	Markley, Wyonna Regena.....	Kenmore Sta.
Cox, Beatrice Sarah.....	Akron	Meyer, Ray Catherine.....	Akron
Crabb, Dorothy Esther.....	Akron	Miller, Alice Elizabeth.....	Akron
Cronan, Gertrude Elizabeth.....	Akron	Morgan, Alice Louisa.....	Akron
Crow, Elenor Jeannette.....	Akron	Motz, Ruth Elizabeth.....	Akron
Davis, Sarah Loraine.....	Akron	Mullin, Virginia Rachael.....	Kenmore Sta.
Deering, Grace Marie.....	Akron	Pansler, Frances Irene.....	Akron
DeLeone, Marcillete M.....	Akron	Perks, Elizabeth Lou.....	Akron
Disler, Gladys Gross.....	Akron	Pratt, Lois Geraldine.....	Cuyahoga Falls
Dwyer, Kathaleen Muriel.....	Akron	Price, Sara Elizabeth.....	Akron
Ecurement, Florence Nadine.....	Akron	Robinson, Marjorie Madge.....	Akron
Engler, Leo Joseph.....	Akron	Rosenberger, Gwendolyn.....	Akron
Felger, Mary Maurer.....	Akron	Rowland, June Virginia.....	Akron
Fitterman, Sophie.....	Akron	Rudy, Frieda C.....	Akron
Fletcher, Mildred Ruth.....	Akron	Rugers, Irma Carol.....	Akron
Friedman, Evelyn Hilda.....	Akron	Rushton, Freda Eileen.....	Akron
Fry, Ethel.....	Akron	Saladna, Louis Stephen.....	Akron
Gebhardt, Frank Edward.....	New York	Sapp, Esther.....	Akron
Gordon, Jewell.....	Akron	Sears, Clifford Thomas.....	Akron
Gruner, Elvira.....	Akron	Seidell, Thomas Clark.....	Akron
Haag, Martha Mary.....	Akron	Selzer, Mary Margaret.....	Akron
Hanson, Alice.....	Akron	Sholtis, Mary.....	Akron
Hardman, Martha.....	Akron	Singer, Pauline Pearl.....	Akron
Harry, Marjorie Louise.....	Akron	Smith, Betty Haines.....	Akron
Heepe, Betty Jane.....	Akron	Smith, Homer Francis.....	Akron
Held, Dorothy Caroline.....	Akron	Smith, Ruth Gladys.....	Warsaw
Hollister, Richard Ralph.....	Akron	Smith, Winifred.....	Akron
Hornberger, Aurelia Esther.....	Akron	Sorrell, Dimple Louise.....	Sparta, Tenn.
Hull, Agnes Amanda.....	Copley	Sparhawk, Wilson A.....	Akron
Huston, Violet Bates.....	Akron	Speelman, Kathryn Lucille.....	Akron
Humelban, Helen Catherine.....	Akron	Stansfield, Helen Franc.....	Copley
Jenkins, Edward Charles.....	Akron	Straub, Ruth Mildred.....	Akron
Johnson, Elizabeth Kathryn.....	Lakemore	Summy, Mae Elizabeth.....	Akron
Jones, John William.....	New Philadelphia	Tapper, Esther.....	Akron
Jones, Marie Kathryn.....	Akron	Tedrich, Helen.....	Akron
Kanaga, Nancy Leeper.....	Akron	Trenner, Mollie Louise.....	Akron
Kirn, Dorothy Elizabeth.....	Akron	Vogenitz, Rome Mable.....	Akron
Kreemer, Florence Margaret.....	Akron	Vorhies, Thelma Grace.....	Akron
Lasher, Dorothy Mary.....	Akron	Wainer, Sara.....	Akron
Lee, Frances Amelia.....	Akron	Weddell, Ethel McMeeken.....	Akron
Leifer, Mary Elizabeth.....	Massillon	Whittaker, Nellie.....	Akron
LeRoy, Margaret Jane.....	Akron	Wiener, Lenore Ruth.....	Akron
Lightle, Ruth Elizabeth.....	Frankfort	Wilson, Miles.....	Urbana
Llewellyn, Lois Verna.....	Akron	Woofter, Louise Margaret.....	Akron
McGowan, Agnes Mary.....	Akron	Wright, Ida Mae.....	Akron
Malamatinis, Kalliope.....	Akron		

Men 17; Women 102; Total 119

IRREGULAR STUDENTS

Chastain, Mabel Gladys.....	Blue Ridge, Ga.	Sister M. Victor Geis.....	Akron
Jenkins, Clyde Leonard.....	Akron	Sister M. Dolores Hohman.....	Akron
Parsons, J. Walter.....	Akron	Sister Matilda Bechter.....	Akron
Pence, Gerdena Mary.....	Akron	Sister Agatha Keller.....	Akron
Rossetti, Carnegie Mary.....	Canton	Signion, Mrs. Lucy E.....	Akron
Schilling, Margaret Katherine.....	Akron	Taylor, Virginia Morgan.....	Akron
Sister Miria Shutler.....	Akron		
Sister Mary Dolorosa Muzik.....	Akron		

Men 2; Women 12; Total 14

SPECIAL

Frye, Paul Leroy.....	Akron	Mims, Addie Edna.....	Akron
Hinkle, Lawrence.....	Akron	Winch, George Washington, Jr.....	Akron
Kinsey, Mary Marston.....	Akron		

Men 3; Women 2; Total 5

THE EVENING SESSION

Abel, I. Joseph
 Achbeyer, George C.
 Adams, Jennie H.
 Aitken, F. G.
 Albers, Alta
 Albright, Mary N.
 Aldrich, George Lee
 Alexander, Della H.
 Alexander, F. Glenn
 Alexander, Rosanna B.
 Allen, Elizabeth G.
 Allen, Estelle
 Allen, Grace V.
 Allen, Margaret J.
 Allen, Ora
 Allen, Ronald O.
 Almes, Marion C.
 Alspach, Grace
 Alspach, Martha E.
 McAuliffe, Alice
 Amos, Jennie
 Amrein, Florence
 Anderson, Maude
 Anderson, O. M.
 Andrew, Eva E.
 Andrus, G. E.
 Ange, H. H.
 Angove, Ernest O.
 Anthony, L. C.
 Appleby, D. C.
 Archer, Edna
 Arkebauer, George G.
 Armentrout, Dwight
 Armington, Raymond Q.
 Armour, Margaret L.
 Arms, Lerna L.
 Armstrong, Alice
 Armstrong, Elija
 Armstrong, Mary
 Armstrong, Walter
 Arnesen, Lorette M.
 Arnold, Claude A.
 Arnold, Harold G.
 Atkinson, Robert G.
 Atterholt, W. L.
 Atwell, Gladys
 Augustine, Clarence E.
 Ault, Freda M.
 Aultman, Gerry
 Aumann, Henry F.
 Aune, Abram B.
 Auten, E. C.
 Auten, Josephine E.
 Avery, Lyle
 Bachmann, Mary A.
 Backderf, L. H.
 Baeshore, H. Homer
 Bailey, Peter B.
 Baines, Robert S.
 Bair, Lawrence V.
 Baker, Alice M.
 Baker, Dorothy
 Baker, Ruth S.
 Baldwin, Cecile
 Baldwin, Raymond F.
 Ballard, Bess I.
 Ballard, Florence M.
 Ballere, Richard
 Baltz, Robert E.
 Banat, Fred L.
 Bankes, W. E.
 Barger, Pauline
 Barker, Laura
 Barker, Lillian
 Barnes, Eunice
 Barnes, Eunice
 Barnes, L. Ethel
 Barnes, Mabel
 Barnes, Mildred M.
 Barnes, Shirley
 Barnhart, Sarah J.
 Barnhardt, Jane S.
 Barnhill, Otis J.
 Barry, Lena
 Barth, Edwin E.
 Bartholomew, Golda
 Bartholomew, L. R.
 Bartholomew, Pearl
 Bartlett, Don
 Barton, Albert
 Baruch, Laura L.
 Batcheler, Grace I.
 Bates, Ernest D.
 Battistelli, P. E.
 Bauer, Alice
 Baughin, Maude
 Baum, J. Hadsell
 Bauman, Ada
 Baumgardner, Irene
 Baxter, Francis H.
 Bear, H. C.
 Beaver, E. H.
 Beaver, Edna R.
 Beck, Emma E.
 Beck, G. Julia
 Beck, Russell F.
 Becker, Harold D.
 Becker, John J.
 Beckett, Don
 Beckman, Mildred M.
 Bedell, Alta
 Beelman, Mrs. F. C.
 Beltzel, Verna
 Bell, Catharine
 Bemis, H. P.
 Bendell, David C., Jr.
 Bendell, Helene
 Bender, Charles P.
 Benedict, M. H.
 Bennett, James R.
 Berger, June
 Berloff, Samuel
 Bernard, Sister M. Clarita
 Bersaw, Mary E.
 Bertolette, J. H.
 Bessay, R. S.
 Besser, Michael
 Betson, Emma
 Betz, B. W.
 Bey, Albert P.
 Beyer, F. W.
 Bierce, Mrs. B. W.
 Bietz, Kathryn H.
 Biggs, Helen L.
 Binet, Olga
 Bird, Gertrude
 Birney, Ruth
 Bissell, Lillias
 Bixler, Ronald E.
 Black, Ethel M.
 Black, Paul E.
 Blake, Hazel M.
 Blannar, John
 Blanc, Zella M.
 Blank, Ruth E.
 Blasitz, Mike
 Blazek, Lydia A.
 Blower, Lee E.
 Blue, James
 Boburka, Joseph V.
 Bock, George A.
 Boedicker, Howard R.
 Boehm, Carolin W.
 Boehringer, Carl W.
 Boggs, Lee C.
 Bogner, J. M.
 Bogrett, Mary L.
 Bohan, Edward J.
 Bonar, Lottie
 Bolinger, Blanche
 Bolinger, Ruth
 Bolton, Frank N.
 Bonzo, Jesse A.
 Booth, Ralph C.
 Booth, Richard
 Boots, Glenn L.
 Borda, Paul
 Bergerhoff, Mary
 Bordner, Paul W.
 Boser, Vergil D.
 Boston, William C.
 Boteler, Mary E.
 Boughton, Dorothy M.
 Boughton, Gerald A.
 Bowen, Achsah
 Bowen, Beatrice
 Bower, Allen D.
 Bowers, Denny E.
 Bowers, Luella S.
 Bowers, Paul D.
 Bourman, Richard
 Bowlby, N. M.
 Bowles, Forrest C.
 Boyd, Beatrice
 Boyd, Stanley L.
 Boylan, A. Lucile
 Boylan, Dorothy M.
 Boyle, Ida Dyer
 Boyle, Sister M. Mercia
 Boyle, Thomas E.
 Brady, Blanche Greer
 Brazelton, J. W.
 Brodt, Eleanor E.
 Braunstein, Katie
 Braverman, Dora H.
 Breaun, Joseph S.
 Brennan, Mildred A.
 Breyfogle, Estella
 Bricker, Helen
 Bricker, Richard
 Brillhart, Alta M.
 Britsch, Harold L.
 Britton, Carl T.
 Broadhurst, William
 Brodt, Eleanor
 Brogan, Margaret
 Bronsberg, Osmar
 Bronson, Victoria
 Brooks, Lenore
 Brooks, Robert T.
 Brownsword, Ray A.
 Brouse, Clara F.
 Brown, Blanche
 Brown, Helen M. B.
 Brown, Marie G.
 Brown, Walter S.
 Browne, Roy Edward
 Browning, Julia M.
 Brubaker, Irene
 Bruce, Elizabeth W.
 Bruderlein, Rilla M.
 Brune, Adalaide M.
 Brust, Harold E.
 Bryson, Virginia
 Buchanan, Olive A.
 Buchtel, Kenneth
 Buckley, Robert H.
 Buckner, Mary
 Buckohr, Fred J.
 Bund, Harry
 Bunnell, John H.
 Bunting, John H.
 Burdett, Keith
 Burdeshaw, Daniel M.

Burge, Gladys
 Burge, Ralph L.
 Burger, Heinz
 Burgen, John C.
 Burgner, Donna D.
 Burgner, Hazel Reed
 Burke, Julia M.
 Burla, William O.
 Burley, Roy C.
 Burrell, Albert
 Burson, Mildred
 Burt, Eleanor V.
 Buswell, Nellie
 Butcher, Charles E.
 Butters, Harriet E.
 Cable, Rena Nancy
 Cadwallader, Raymond W.
 Cahill, Carl J.
 Caldwell, Emma
 Caldwell, George H.
 Caldwell, Howard J.
 Callahan, Margaret
 Callentine, John
 Calnon, Irene
 Camp, William H.
 Campbell, Carl L.
 Campbell, J. M.
 Campbell, Sam E.
 Cannon, Emma B.
 Cannon, L. E.
 Capron, C. A.
 Cardarelli, Anne
 Cardarelli, Jennie H.
 Cardarette, Mihose A.
 Cardey, Arma L.
 Carey, Lila
 Cargo, W. Karl
 Carmany, Ralph E.
 Carothers, Frances
 Carper, Pearl M.
 Carroll, H. A.
 Carson, Frances W.
 Carson, Olive G.
 Carter, Anthony G.
 Carter, Daniel G.
 Carter, Erma L.
 Carter, Marjorie A.
 Cartwright, Howard
 Caves, Myrtle W.
 Cekoskey, George
 Cermak, Charles F.
 Chamberlain, Georgia
 Chamberlain, S. F.
 Chambers, Carl O.
 Chambers, H. L.
 Chappell, Christine
 Chatlain, Mary H.
 Chatley, Grace
 Chermonte, Mary
 Cherryholmes, Eva
 Childs, D. S.
 Childs, Edith M.
 Chisnell, Glenn H.
 Choban, John V.
 Christman, Francis S.
 Church, Joseph D.
 Clapper, D. Warren
 Clark, Carolyn C.
 Clark, M. A.
 Clark, Thad
 Clark, Thomas E.
 Clarke, Florence H.
 Class, Adalaide L.
 Cleland, Fred
 Cleland, William
 Clawson, Elizabeth B.
 Clemenson, E. M.
 Cline, Virgil Peter
 Clinger, Inez
 Close, Alice F.
 Cloyd, Ida E.
 Cline, Harold L.
 Coburn, Roscoe G.
 Cochran, Harold L.
 Cochran, Paul A.
 Cockrell, Helen E.
 Coe, Mildred
 Coffin, L. H.
 Cohen, Jeanne E.
 Cohen, Sadie
 Cohen, Sidney E.
 Coke, Charles Donald
 Coke, Pabuck J.
 Cole, Fred L.
 Cole, Lytle W.
 Collins, Elizabeth
 Collins, James B.
 Combs, E. R.
 Compber, Stanley G.
 Compton, Martha E.
 Condra, Charles E.
 Conger, A. L.
 Conklin, Mattie V.
 Conley, Margaret
 Conley, Walter J.
 Considine, J. Raymond
 Conway, Emmet A.
 Cook, Clarice M.
 Cook, Horace C.
 Cooper, Alice M.
 Cooper, B. F.
 Cooper, Eloise D.
 Cooper, Paul G.
 Cooper, Plascette Ellen
 Corbett, Evelyn
 Corbett, Marion G.
 Corey, Charles B.
 Corl, Helen
 Corman, Fannie
 Cornish, Vernon T.
 Cornish, Winton J.
 Cottle, William R.
 Courtney, James A.
 Cowling, Richard
 Cox, Ardith M.
 Cox, Roger
 Cox, Carney F.
 Cox, Lurie
 Coy, Chester Allen
 Cramer, Dorothy B.
 Cranmer, Blanche C.
 Cramer, Edna B.
 Crawford, Chester V.
 Crawford, Cletis D.
 Crawford, M. Lee
 Crawford, Park
 Crecelius, Ross E.
 Cribbs, H. Walter
 Crissinger, M. S.
 Crosley, Carl
 Cross, M. F., Jr.
 Cross, Wanda L.
 Crosser, James E.
 Crown, Ralph E.
 Crown, Victor
 Cruce, William A.
 Crum, Bertha
 Culbertson, Vera
 Curran, Flo B.
 Crummel, Lulu M.
 Cruickshank, Donald
 Currie, John D.
 Curry, Thomas
 Curry, Wade H.
 Cusick, John R.
 Cutler, Thomas E.
 Dackerman, Priscilla
 Daily, Ethie
 Daily, Roy
 Dakovich, Lewis
 Dales, Anita
 Dally, Irma
 Daly, Saul
 Daly, Frances
 Damann, George
 Dambach, Mary E.
 Dames, Blanche R.
 Danaher, James B.
 Dando, Robert E.
 Darkow, Harold
 Daugherty, Leonard A.
 Daugherty, Rena
 Daugherty, W. J.
 Davidson, Charles
 Davies, Carrie L.
 Davies, J. P.
 Davis, Earl L.
 Davis, Esther R.
 Davis, Hazel Belle
 Davis, Hazel Kirke
 Davis, Joe G.
 Davis, Margaret
 Davis, Marian
 Davis, Olive
 Davis, Richard L.
 Davison, M. Lucille
 Dean, Anna H.
 Dean, Earnest
 Dean, Wendell
 Debes, Reinhold
 DeCamp, John E.
 Deck, J. F.
 Decker, Mildred A.
 Decker, Robert W.
 Decker, E. S.
 Delaney, W. F.
 DeLine, Helen
 Delp, Gertrude
 Delp, Irwin W.
 Demk, Frances
 Deming, Alice
 Denning, Eugene B.
 Denning, Herman
 Denny, Albert W.
 Depp, Marion L.
 Derer, Gustav
 DeShon, Clara E.
 Devine, G. W.
 DeLaVergnes, Harry A.
 DeVore, Mrs. L. E.
 DeVoe, Geraldine
 Dewey, Harry E.
 Dick, Harold G.
 Dickerson, John L.
 Dillehay, A. J.
 Diller, Goldie M.
 Dillworth, Charles E.
 Dirkson, J. W.
 Dittmore, James A.
 Dix, Ruth Musser
 Dobie, Robert B.
 Dobias, Helen
 Dobkin, Ida Sydnie
 Donaldson, G. S.
 Donaldson, Jean Baird
 Doner, Louise
 Donnelly, Louise N.
 Doig, Duncan C.
 Doran, Helen
 Dorman, May L.
 Dougall, John N.
 Dougherty, Francis M.
 Dougherty, S. S.
 Douglas, J. Edwin
 Doult, Mrs. H. M.
 Dow, Esther
 Dowthard, Clarence D.
 Drake, Lena M.
 Drake, Ruth Elizabeth
 Dreisbach, L. A.
 Driesbach, Oliver C.
 Driscoll, Kathryn
 Duncley, Sarah

Hansen, Martha
 Hanlon, Eunice A.
 Hanna, Elmer
 Hansen, Nora
 Hardesty, Paul
 Hardgrove, H.
 Hardy, L. F.
 Hardy, Leslie P.
 Haren, Agnes
 Harper, Donn H.
 Harmon, Arthur
 Harlan, Hazel
 Harnish, Lena S.
 Harper, LaVonnie
 Harpley, Ray S.
 Harris, Agnes M.
 Harris, Mabel
 Harris, Mary Louise
 Harshbarger, Irene M.
 Harshbarger, Glen E.
 Harding, Wilma
 Harrington, Fay B.
 Hart, Guy F.
 Hart, Mary
 Harter, Walter F.
 Hartenstein, Otis L.
 Hartman, Robert
 Hartz, Gilbert A.
 Haslett, George W.
 Haslett, Mildred W.
 Hassenlue, Mary Jane
 Hassler, Doris Janet
 Hatfield, Dora
 Harvey, Arnold
 Hatter, Mrs. William
 Hauck, Laura N.
 Havens, William P.
 Hawkins, Harriet
 Hawthorne, Neva L.
 Hayes, Dorothy
 Hayes, Andrew
 Hayes, Harlan R.
 Hayes, Merlin L.
 Hayhurst, Robert O.
 Hayworth, Jane S.
 Hazlett, Miriam I.
 Heckman, Raymond A.
 Hecke, Ethel W.
 Heepe, Ethel
 Heffley, Edna Z.
 Hein, Hildegard
 Heinzman, Fern K.
 Heisel, Eldred B.
 Helphinstine, Lowry B.
 Helphinstine, Osborne P.
 Helwig, Corinne
 Heminger, W. H.
 Henderson, Carrie M.
 Henderson, Ona
 Hendrickson, Elizabeth
 Hennigan, Catharine
 Henry, C. M.
 Henry, Dorothy
 Hensal, R. May
 Henthorne, Anna Belle
 Hepner, Mrs. Eva L.
 Heppberger, Mary
 Heppert, Wallace A.
 Hergert, James C.
 Herman, Hazel G.
 Herrick, Earl V.
 Herring, Carrie A.
 Hershberger, Verda May
 Heslett, H. A.
 Hess, Paul E.
 Heuser, Agnes D.
 Heydorn, William
 Heydorn, Walter
 Hibinger, O. P.
 Hill, Charles J.
 Hill, Clarence F.
 Hill, Florence E.
 Hill, Stella A.
 Hillock, Amy Osborn
 Hinderer, Howard L.
 Hinderliter, H. E.
 Hinds, Don
 Hine, Hazel E.
 Hinkle, E. C.
 Hinks, Amos E.
 Hirsleman, Adeline A.
 Hodge, W. M.
 Hoffman, H. D.
 Hoffman, Lorin
 Hofner, Ethel
 Hogan, William J.
 Hogsett, Marie
 Holldorf, H. R.
 Hollen, Franklin S.
 Holey, Geneva
 Hollow, Irene
 Holmes, Sinclair
 Holser, Rose
 Holt, Homer
 Holub, Miriam A.
 Honeywell, Arvine J.
 Honeywell, Virginia M.
 Hoobler, Paul
 Hooper, Janet
 Hooper, Richard H.
 Hoopes, Violet Blaser
 Hopfner, Mabel
 Hornberger, Floyd T.
 Horner, Fayette H.
 Horning, Leone M.
 Horning, Martha
 Horst, Henry M.
 Hosford, Lois
 Hostenstein, Frances C.
 Hottenstein, Howard W.
 Houbert, Edith J.
 Houser, Mildred
 Hout, Charles J.
 Howell, Florence
 Hubbard, Audree
 Hudgins, Ercell
 Huffman, Stanley F.
 Hugel, Emil
 Hughes, Evelyn
 Hummel, Harvey
 Hummel, Oliver E.
 Humphrey, Nina S.
 Hopkins, Carl
 Hornsberger, F. L.
 Hunnicutt, Edward H.
 Hunsicker, Dorothy Alice
 Hurcomb, Roy A.
 Hurr, Melvin
 Hurst, O. Benson
 Hurst, R. E.
 Hyatt, Eulalia
 Hyatt, L. F.
 Hyland, William F.
 Illenberger, Arthur M.
 Ilsley, Bradford L.
 Ingersoll, Alpha A.
 Ingersoll, Ella M.
 Ion, Grace E.
 Irwin, Kathryn
 Irwin, N. N.
 Irwin, William J.
 Isenman, A. L.
 Jackson, George H.
 Jackson, Helen J.
 Jackson, William G.
 Jacob, Gladys O.
 Jacobs, Arthur L.
 Jacobs, Freda
 Jacobs, Paul
 James, Iva B.
 Jameson, George
 Jamison, C. L.
 Jamison, John E.
 Janda, Katharine
 Jaynes, David
 Jeffries, John R.
 Jellison, H. M.
 Jemison, Andrew
 Jenkins, Anna
 Jennings, H. Manning
 Jeppeson, Helen L.
 Jobs, Algier G.
 Joel, William A.
 Johnson, Clara E.
 Johnson, C. W.
 Johnson, Earl W.
 Johnson, Edwin C.
 Johnson, Ethel M.
 Johnson, M. L.
 Johnson, Richard L.
 Johnson, Ruth E.
 Johnson, Vera C.
 Johnston, Dorothea M.
 Johnston, Elizabeth V.
 Johnston, Nan Y.
 Johnston, Wendell H.
 Jones, Bertha B.
 Jones, Donald S.
 Jones, Herbert K.
 Jones, Margaret A.
 Jones, Owen T.
 Jones, Edwin L.
 Jones, Paul J.
 Jones, Pratt
 Jones, Richard C.
 Jones, Robert B.
 Jones, Thomas E.
 Joyce, Alfred
 Juengel, W. O. S.
 Kahler, Della M.
 Karadin, Anton
 Kattouf, Sam
 Kauffman, Ezra E.
 Kaufman, Robert
 Keach, John R.
 Kearney, D. W.
 Keck, Helen
 Keck, Kenneth
 Keeney, Harriette
 Keeney, H. Bernard
 Keller, Land C.
 Keller, Ruth E.
 Kelly, Katherine U.
 Kelley, Jesse A.
 Kelley, John B.
 Kelley, Kathryn N.
 Kelsey, William N.
 Kennedy, Emily V.
 Kennedy, Elroy
 Kennedy, Liston Roland
 Kenney, V. C.
 Kepler, Beatrice
 Kern, Ervin S.
 Kerst, Harry F.
 Kettren, Rose R.
 Kibler, Ira C.
 Kick, Margaret M.
 Kidder, George F.
 King, Jerome H.
 Kinnan, Esther R.
 Kirk, Mary M.
 Kirkish, Mona
 Kistler, Clark B.
 Kittredge, Lois
 Kivett, Caroline
 Klein, John F.
 Klein, M. R.
 Klein, Thelma L.
 Kline, Dorothy E.
 Kline, Paul M.
 Knapp, Audrey I.
 Knecht, Leslie S.
 Knoll, John W.

Duncan, H. D.
 Dudgeon, Luverne
 Dunlap, Leroy
 Dunn, Charles V.
 Dunn, Emma
 Durr, Mary Faye
 Duvall, Lucille F.
 Dyke, Minor B.
 Earhardt, Mary
 Earheart, Phillip M.
 Easterday, Hazel V.
 Ebright, Dorothy W.
 Eckert, Clara A.
 Eckds, Zella
 Ecrement, Lloyd L.
 Eckley, Norman
 Edelson, Edith
 Edgar, Grace
 Edman, E. A.
 Edwards, Katharene
 Edwards, Leslie D.
 Eddy, C. W.
 Eginton, Elizabeth C.
 Ehrhardt, John
 Eksey, Alexander H.
 Elderkin, Cecil O.
 Elliot, Eleanor
 Ellis, J. Betty
 Emley, Josephine C.
 Emmons, Virginia L.
 Engler, Alvin
 Epler, Frances
 Erspringer, Marguerite
 Ervin, Lillian G.
 Erwin, Mary E.
 Esch, Joye
 Evans, Ada D.
 Fackler, Eunice N.
 Failor, Jesse W.
 Fairbanks, Helen A.
 Fankbonner, Doris K.
 Fanning, James
 Farlin, Mary Elizabeth
 Farnsworth, Helen B.
 Fargo, Louise
 Farr, Ada
 Farr, Alvira
 Farver, Warren L.
 Faylor, R. S.
 Faysash, Julius F.
 Fela, Stephen
 Felix, Jane Eleanor
 Fellabaum, Merritt
 Felmy, Esther M.
 Felsted, L. F.
 Fenn, Arthur G.
 Fenton, Kenneth E.
 Ferguson, Mildred
 Ferguson, W. D.
 Fetter, Marian E.
 Fetter, Mary
 Fickes, Robert
 Fiegley, Alice
 Field, Albert H.
 Fielding, John H.
 Fink, Gregg C.
 Fink, Charles D.
 Finlay, James
 Finley, Milton
 Finney, Mary H.
 Fiocca, John
 Firestone, Russell L.
 Fischer, Leroy R.
 Fisher, Marie
 Fitterman, Sophie
 Fitting, Henry P.
 Fitzpatrick, M. J.
 Flanigan, Mary V.
 Flasco, Carl J.
 Flaseo, Carl
 Fleming, Robert H.
 Fletcher, C. H.
 Fletcher, Josephine S.
 Fletcher, L. E.
 Fletcher, Ruth W.
 Flickinger, Bessie
 Flint, Eldora
 Flor, Dewey M.
 Flower, Francis A.
 Fogarty, Bernice
 Fogle, Ruth S.
 Fogle, Willard G.
 Foltz, Esgar B.
 Forbes, Herman L.
 Force, Marion E.
 Fornwalt, Roy G.
 Forsberg, Mildred E.
 Foss, Harold D.
 Foss, Iver L.
 Foster, Kenneth D.
 Foster, Mary
 Fouse, H. G.
 Fouse, R. L.
 Fox, Lee
 Frampton, Bertha R.
 Frantz, Eli M.
 Frantzen, John T.
 Frase, Mabel
 Frashner, A. Clifford
 Frederick, Florence
 French, George J.
 French, L. Adrian
 French, Ruth E.
 Frey, Margaret F.
 Frey, Mary R.
 Frey, Russell
 Fricker, Agnes
 Fricker, Lillian
 Frieden, Nina
 Fritch, Ada B.
 Fritch, E. D.
 Fritsch, Paul R.
 Fritz, Joseph M.
 Frohlick, J. S.
 Frost, Alma
 Frost, Louise
 Fry, G. E.
 Fry, Nora B.
 Frye, Irene
 Fuller, Belle
 Fullerton, Finley S.
 Gahring, Hinda W.
 Gail, William H.
 Galehouse, George R.
 Gallets, Sophia
 Gallaway, E. Wayne
 Gallaway, Marie J.
 Gallup, Masie
 Gamble, Cecil A.
 Ganshirt, Sister M. Clarice
 Gantz, Ralph M.
 Gardner, F. A.
 Gardner, Grace E.
 Garfield, Daniel Y.
 Garl, William
 Garl, Clyde R.
 Garner, Louise
 Garner, Dwight A.
 Garrett, Norman
 Garrison, Bernice
 Garver, Charles L.
 Garver, Ira E.
 Garver, Paul E.
 Garver, Willard
 Gaston, Earl S.
 Gatts, Marie Peterson
 Gaylord, Dorothy
 Gear, George A.
 Gee, James A.
 Geer, H. B.
 Gehri, Lillian
 Geib, Ralph M.
 Geigel, Martha A.
 Geis, Geraldine E.
 Geiger, James C.
 Gentry, Ruth A.
 George, Blanche
 Gerhart, Anthony C.
 Gerlicher, R. A.
 Gibson, Mabelle
 Gibson, Mary C.
 Giessen, Dorothy E.
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 Gilbert, Jacob
 Gilbride, Rose M.
 Gilham, Clarence T.
 Gill, Ollie Mae
 Gille, Werner F.
 Gillooly, J. A.
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 Gollitz, Thaddeus J.
 Goodman, Morris
 Gore, Gilbert F.
 Gorup, Joseph
 Goss, Clara
 Goss, Hilda
 Gorlando, Thomas
 Gould, Louis P.
 Graber, Guy N.
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 Graham, Doris
 Graham, Herbert E.
 Graham, Luella
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 Graham, M. M.
 Graham, M. Nevada
 Graham, Ruth E.
 Grant, Glennie M.
 Grant, Catherine
 Grassbaugh, R.
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 Graves, Olive
 Gray, Ruth
 Gray, William M.
 Grazier, John H., Jr.
 Green, Gordon
 Green, Alice R.
 Greenly, Russell J.
 Griese, Sylvia E.
 Griffiths, Harry D.
 Grogan, Richard
 Grosh, Elizabeth B.
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 Gross, Franz
 Grosscup, Ruth Ludlam
 Grossman, Isadore
 Grubb, E. W.
 Gruccio, John
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 Guth, Douglas P.
 Haas, Phillip J.
 Hadley, Lucy
 Haelele, Pluma
 Hagsett, Marie
 Hall, Charles C.
 Hall, James B.
 Hall, Marion
 Hall, Marjorie
 Hall, Robert E.
 Hall, Vida I.
 Hall, Vesta G.
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 Hamilton, K. Blanche
 Hamilton, Archie S.
 Hamilton, E. L.
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 Handler, R. C.
 Hankwitz, Dorothea
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 Koegel, Louise
 Koegel, William
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 Ladd, Alfred D.
 Ladley, Mary E.
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 Lange, Melvin S.
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 Lang, Pauline
 Lang, Wilhelmina
 Larson, Antoinette
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 Lauby, Ralph
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 Lawler, Ellen F.
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 Leach, Doris
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 Leigh, Ralph H.
 Leight, Vesta
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 Lengyel, Helen
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 Levin, Edward
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 Ley, Bernard W.
 Lightner, Beryl A.
 Lindsay, John
 Lindsey, Clara M.
 Lewis, Vernon F.
 Linger, R. C.
 Linkie, James T.
 Lipps, Walter C.
 Littell, C. E.
 Litz, Randolph
 Litzinger, Josephine
 Loeber, William G.
 Long, Carl W.
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 Loomis, Oliver W.
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 Loose, Elizabeth S.
 Lorenz, Ellen Jane
 Lose, Kathryn
 Lower, Daisy F.
 Lowrey, Gardiner A.
 Lowery, Louise V.
 Lotz, George E.
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 Lucas, George E.
 Ludman, William B.
 Lutz, Carl O.
 Lundell, Dorothy
 Lutz, Dorothy Ware
 Lyle, Chester A.
 Lynch, V. H.
 Lynn, Dillard A.
 Lyon, Hamann
 Lyons, Mary R.
 Lytle, Bell
 Lytle, Elmer J.
 MacDonald, Belle A.
 McAcy, Helen K.
 McAulliffe, Alice
 McCarthy, Mary
 McCaughy, Amy
 McCaughy, Helen
 McClure, Bernard L.
 McCobb, Herbert H.
 McCord, Geneva
 McCollister, W. H.
 McCormick, Mary E.
 McCarty, Herschel B.
 McCune, Grace
 McDermott, Perin
 McDonald, Alice
 McDonnell, Frank
 McDonough, Leanon
 McDougal, John T.
 McDowell, Anne E.
 McDowell, John P.
 McDowell, R. F.
 McFadden, Marion B.
 McFarland, Beryl E.
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 McGrath, Frances A.
 McHugh, A. L.
 McIlroy, Dan
 McIlroy, Warren
 McIntosh, W. C.
 McKee, Edward
 McKelvey, Augusta
 McKibbin, Margaret E.
 McKinnon, Ann G.
 McKinnon, Marian L.
 McKinnon, Richard A.
 McKinnon, Robert L.
 McLaughlin, G. W.
 McLaughlin, Warren
 McMahan, James H.
 McMullin, Winifred
 McNamara, James
 McNosky, Walter W.
 McNeese, Carl P.
 McPeck, John K.
 McPherson, James M.
 McQuie, Fannie
 McQuilkin, Mildred L.
 McRitchie, Gerald R.
 McVean, Etta
 Macbeth, Gladys
 Mace, Mabel B.
 Machay, Isabella C.
 Maclachlan, A. D.
 Maffet, Richard L.
 Magenau, William
 Maier, Edward L.
 Maloney, Ethel L.
 Manell, M. Harriet
 Malick, G. Franklin
 Mangold, E. G.
 Markle, Carl M.
 Marks, Marie M.
 Marks, Ben H.
 Marley, Margaret E.
 Marshall, D. F.
 Martin, Betty
 Martin, Bruce
 Martin, Cletion
 Martin, Earl H.
 Martin, James E.
 Martin, Jene
 Martin, Julia C.
 Martin, Marguerite
 Martin, Richard B.
 Martin, Rose
 Martin, Wilbur
 Martin, W. F.
 Mason, Anita L.
 Marton, Andrew
 Mason, C. L.
 Mason, Frances
 Massey, Virginia E.
 Matick, Pauline E.
 Matuck, Donald
 Mayhew, Clarkson J.
 Mayer, Elfrida M.
 Mazey, Alleyne
 Mazey, Maynard
 Mcarig, J. F.
 Mears, Charles A.
 Melander, Amanda C.
 Mellon, H. D.
 Merkin, Sarah
 Metzger, John D.
 Meyer, August F.
 Meyer, Ernest A.
 Meyer, Gertrude
 Meyers, Anthony J.
 Meyers, Elizabeth
 Meyers, Paul E.
 Michalec, Leo
 Michel, A. Mae
 Miklik, John J.
 Middlestead, Charles W.
 Miller, Charles W.
 Miller, Blanche
 Miller, David L.
 Miller, E. Bruce
 Miller, Florence
 Miller, H. A.
 Miller, J. Paul
 Miller, Josephine
 Miller, Julius
 Miller, Lysle D.
 Miller, Mary
 Miller, Mary E.
 Miller, Ralph L.
 Mills, Robert E.
 Milleysack, John B.
 Mills, George E.
 Mills, Ellis T.
 Mimms, William Z.
 Minchek, John D.
 Minter, Irene
 Misamore, Ina

Misner, Jack E.
 Mitchell, Emma S.
 Mitchell, Lawrence E.
 Mitchell, Martha A.
 Mitchell, Thelma
 Mitchell, W. C.
 Mitish, John P.
 Moen, Thelma
 Mohrman, Edwin M., Jr.
 Mollenkopf, Huber L.
 Mong, Rebba J.
 Monroe, Stanley G.
 Moore, W. H.
 Mooney, Sara M.
 Morris, Donald R.
 Moore, Alice
 Moore, Ethel A.
 Moore, Florence D.
 Moore, Helen
 Moore, Horace B.
 Moore, Jessie L.
 Moore, John F.
 Moore, Joseph A.
 Moore, Ledeen M.
 Moore, Mary M.
 Moore, Maude E.
 Moore, Ralph E.
 Morr, Glen P.
 Morris, Vera I.
 Morrow, Anna L.
 Moseley, Roland
 Moss, Elsie J.
 Mosser, George F.
 Movill, Kathryn
 Moyer, Arthur V.
 Moyer, Lawrence E.
 Mowrey, David E.
 Moyer, Wade
 Mueller, Elliott A.
 Mullett, Evelyn
 Mullikin, Alice L.
 Mulson, Adelaide
 Munford, Irene
 Murdock, Hettie B.
 Murphy, Clark W.
 Murphy, Leroy P.
 Murphy, Roger W.
 Murray, William F.
 Murrough, Frank M.
 Musser, Esther M.
 Musser, Rosamond
 Myers, Donald H.
 Myers, Donna
 Myers, F. C.
 Myers, Forrest D.
 Myers, George J.
 Myers, Ingram C.
 Myers, Martha
 Myers, Ruth M.
 Myers, Ruthanne
 Myers, Wayne
 Myers, Victor
 Mytinka, Russell
 Nagel, Charles H.
 Nance, Robert N.
 Napoles, E. H.
 Naumer, Lora I.
 Neal, Edith L.
 Neff, Louis G.
 Neiswanger, Ruth
 Nells, Gertrude
 Newbauer, Henry M.
 Newhall, Clifton M.
 Newkirk, H. F.
 Newman, A. P.
 Newman, H. C.
 Newton, Gladys M.
 Nickerson, Joanna
 Nichols, Martha O.
 Nikolich, Milena
 Noakes, L. C.
 Nosker, F. H.
 Novak, Francis
 Novkov, Steven
 Norton, C. Helen
 Nye, Maurice A.
 Oberdeck, Lydia M.
 O'Brien, William
 O'Bryan, W. Hugh
 O'Conner, Elizabeth
 Odenbach, Mary W.
 Olden, Morris
 O'Leary, John T.
 Olinger, Lester C.
 Olsen, Charles R.
 Olsen, Louis, Jr.
 Omeroid, M.
 O'Neale, B. B.
 O'Neil, J. M.
 Oplinger, Fred
 Oplinger, George W.
 Orr, Cletus
 Orr, Grace
 Ost, Helen M.
 Ost, Helen Margaret
 Ost, Ray
 Ostrov, Betty
 Olen, Ralph
 Oyston, Ernest
 Parker, Harriet
 Paddock, Donald G.
 Paff, Harold G.
 Pancake, Lee
 Parker, Marilla
 Parkinson, Eric A.
 Parks, Keith A.
 Parmer, Elizabeth
 Parratt, Margie
 Parrine, Ethel G.
 Parsons, Frank P.
 Parsons, G. T.
 Parsons, S. Preston
 Parsons, Walter
 Patterson, Robert
 Paul, Edward A. B.
 Payne, Eva
 Peacock, Kathryn
 Pearce, E. Maurice
 Pearson, Norman
 Pease, Blanche Mae
 Pease, Ruth P.
 Pees, Mahala J.
 Pembroke, Beatrice
 Peat, Flora Forbes
 Perault, Laura
 Perry, Rose A.
 Perry, William T.
 Pelfrey, W. O.
 Pesaric, Jack
 Peters, Herman
 Peters, Victor
 Peterson, Elma M.
 Peterson, Florence H.
 Peterson, Leo H.
 Pettit, Arvil B.
 Pfaff, Rhea
 Pfeister, Sevilla W.
 Phillips, Carrie
 Phillips, Lennie
 Pironti, John A.
 Piehl, H. C.
 Pierce, Ethel M.
 Pilkey, Marcia
 Pieto, J. V.
 Pinto, Leonard J.
 Piper, Clyde
 Pironti, Florence
 Pittinger, Charlotte
 Pittenger, John M.
 Pittenger, G. H.
 Plageman, Lee W.
 Plane, Mary M.
 Plilar, J. D.
 Pluntze, E. Jane
 Poe, Helen F.
 Pogany, Anne
 Pongress, Isabel J.
 Poole, Harold J.
 Poole, Irene T.
 Poole, Raymond I.
 Popadick, William
 Poppke, Gertrude C.
 Porter, Florence
 Porter, Nellie
 Posey, Mildred
 Powell, Gerald
 Powell, W. D.
 Powell, Prosper
 Powers, Pauline V.
 Pratt, R. H.
 Prentiss, Z. R.
 Presswell, Lucile
 Price, Lawrence E.
 Proctor, Harrington L.
 Pryor, Isabel M.
 Pulos, George
 Pulos, Peter
 Purdy, John F.
 Purdy, Vada H.
 Purdy, Gregory J.
 Putnam, Grace M.
 Pyers, Bessie
 Pyle, A. E.
 Pyorka, Conrad
 Quaintance, Elsie
 Quell, Tressa
 Quirk, John C.
 Rabe, Ralph T.
 Race, Johnson E.
 Rafferty, Virginia L.
 Ralston, Dorothy G.
 Rambacher, Sylvester
 Ramsey, Lenora M.
 Randall, Blanche L.
 Randall, Lawrence S.
 Randall, Nora E.
 Randall, Ralph H.
 Randolph, Louise D.
 Rausch, Calvin P.
 Rawson, S. W.
 Ray, Cathrin A.
 Raynow, Robert T.
 Rea, Frances
 Reaven, Saul
 Reed, Edith H.
 Reed, Olive D.
 Reeves, Howard
 Regal, A. P.
 Reidenbach, Dorothy E.
 Reining, Ralph
 Reinoehl, Lloyd E.
 Reisinger, Mary E.
 Renew, Warren
 Rennecker, Gertrude
 Rentschler, Ruby D.
 Rex, LeRoy
 Reynolds, J. T.
 Rhodes, Ella I.
 Rhodes, Marguerite F.
 Rians, Dorothy
 Rice, Gladys K.
 Richardson, Edith B.
 Richards, George B.
 Richards, Marie
 Richards, Randolph
 Richards, Violet
 Richardson, Grace B.
 Richardson, Ida A.
 Richardson, Jean
 Richt, Mary Alice
 Rickel, C. E.
 Ricker, L. D.
 Ricksecker, Cleve W.

- Riggs, Rubie C.
 Riley, Vincent R.
 Rine, May Belle
 Ritenour, Cedric J.
 Ritzert, Regina B.
 Ritzman, R.
 Rivitz, Harold
 Robbins, Herbert C.
 Roberts, Bertha P.
 Roberts, Gilbert
 Roberts, Hassel G.
 Roberts, Maude
 Robertson, James M.
 Robertson, Martin F.
 Robinson, Glen C.
 Robinson, Helen Fay
 Robinson, Henry E.
 Robinson, Lucille E.
 Robinson, Margaret
 Robinson, Violette
 Rock, Lela Viola
 Rockwell, Theodore F.
 Rodgers, Howard E.
 Roe, Emily L.
 Roetzel, Marie J.
 Roetzel, Ruth L.
 Rogers, Martin L.
 Romweber, Ruth E.
 Roppel, Florence C.
 Rorabaugh, Hazel
 Ross, June E.
 Ross, Paul J.
 Ross, Mary G.
 Ross, Sarah
 Rosenberger, Gwendolyn
 Roth, Charles W.
 Rothermel, Bernard P.
 Rothrock, Stanley S.
 Roundy, Elmer
 Roussert, Sister M. Bernice
 Rudy, Frieda C.
 Ruedl, John C.
 Ruggles, Catherine
 Ruley, Opal T.
 Rummell, Edward E.
 Rumsey, Maude E.
 Rumsey, Rebecca
 Rush, Ruth Vance
 Russell, Alexander
 Russell, Effie
 Russell, C. Willard
 Russell, F. G.
 Rufenacht, Paul F.
 Ruston, Sarah
 Ruttman, D. Walter
 Sabin, F. G.
 Sacks, Lillian B.
 Sacks, Leon
 Sadler, Harry G.
 Saffel, Charles A.
 Safi, Edward
 Salchak, Karl
 Samuels, Marion C.
 Sanders, Sam
 Sandusky, Jessie
 Sanford, Margaret
 Santee, Leland M.
 Santrock, Nora
 Sargent, Mary
 Sargent, H. A.
 Sarah, Richard G.
 Satterfield, Lillian L.
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 Scadeeto, Anthony
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 Scheffman, Sidney, Jr.
 Schell, Burton W.
 Schenty, W. L.
- Schieb, Charles E.
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 Schill, Robert
 Schilling, Margaret
 Schlegel, Alfred P.
 Schlappi, Marion
 Schlitt, Emanuel M.
 Schmeidel, Mildred
 Schnitzer, W. J.
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 Schneider, Frederick W.
 Schoner, Donald
 Schott, Harry E.
 Schraidt, Hilda T.
 Schubert, H. U.
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 Schwartz, A. W.
 Schwarzman, Edith
 Schweikart, Frieda L.
 Scollard, Margaret
 Scott, C. P.
 Scott, Russell N.
 Seaton, J. H.
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 Seib, William A.
 Seidel, A. E.
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 Selden, Robert A.
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 Sharpe, Nelle C.
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 Shelly, Joe
 Shepherd, Thomas
 Shepard, Nelise
 Sheppard, Cora P.
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 Shetler, Verda I.
 Shields, Edith F.
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 Shotwell, Mary F.
 Shover, Rebecca
 Shreiner, Ruth
 Shugert, Helen
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 Sieber, Richard
 Silby, Albert
 Shuman, Cottie P.
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 Simpson, William H.
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 Slevin, Edith H.
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 Sloan, Emma E.
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 Smith, Edna Mae
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 Smith, Horace A.
 Smith, Jessie G.
 Smith, Kathryn
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 Stanson, H. D.
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 Stetler, Meta

Stevenson, Elizabeth D.
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 Stewart, Alton B.
 Stewart, Cordelia E.
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 Stilwell, Byron W.
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 Strauss, Sam
 Strobel, Dorothy
 Streib, Amanda E.
 Strickland, William R.
 Stucker, Lyman M.
 Strong, Stewart
 Stucher, N. S.
 Stud, Robert P.
 Studer, N. S.
 Stump, Amber E.
 Stump, Carl M.
 Stump, Elizabeth B.
 Sturges, Elizabeth L.
 Sturman, Irene M.
 Sturm, Robert E.
 Sturtevant, Edward D., Jr.
 Stuver, Bernice I.
 Sugden, John Henri
 Sullivan, Nora E.
 Sullivan, Marnette
 Suloff, Belle B.
 Suschik, Evfrim G.
 Sutherland, Ida B.
 Sutherland, Hardy G.
 Sutherland, Eugene B.
 Sutter, Leo J.
 Swanson, Howard
 Swanson, C. J.
 Swart, Gilbert H.
 Swartwood, William H.
 Swartz, MaRee P.
 Swearingin, Walter
 Sweeten, Grace
 Swift, H. O.
 Sweitzer, A. E.
 Swindler, A. E.
 Swineford, Fred E.
 Swinehart, Norabel
 Swinehart, Ruth P.
 Swisher, Vesta H.
 Switzer, C. C.
 Switzer, Happy M.
 Sykes, Florence
 Sykora, Joseph E.
 Sypher, Alden H.
 Tasker, Glenn
 Taylor, Bernice
 Taylor, Edward E.
 Taylor, James
 Taylor, Owen R.
 Teagle, N. H.
 Teeple, Lucyle
 Teeter, Vivian
 Tennissen, Ann M.
 Tenny, Gladys
 Terman, L. A.
 Terrell, Joseph K.
 Test, J. A.
 Testa, James
 Thaxton, Paul R.
 Thayer, C. E.
 Theiss, Dale C.
 Theiss, Floyd C.
 Thomas, Esmond
 Thomas, Mildred J.
 Thomas, M. W.
 Thomas, William G.
 Thompson, Grace J.
 Thompson, Mabel A.
 Thompson, Mildred B.
 Thompson, O.
 Thompson, Mrs. Flossie
 Thompson, Rose A.
 Thorp, Harold W.
 Thourot, Mary Grace
 Thursby, Reynold R.
 Tietgen, Carl F.
 Tiffan, Frank F., Jr.
 Tiffan, Fred
 Tillett, Charles M.
 Tingler, Curtis
 Tinker, Carl B.
 Tinter, John
 Tinter, Joseph
 Titmas, W. G.
 Tobin, Honora
 Toble, Retta A.
 Todd, Dorothy
 Todd, Grace A.
 Todd, Leslie E.
 Tooker, K. O.
 Tothy, Irene
 Topinger, Cordelia G.
 Tragesser, Mont L.
 Trainer, John R.
 Trautwein, Helen S.
 Travis, Geneva
 Treffinger, Carolyn
 Trieber, Fred A.
 Treloar, Philippa
 Trenner, Anna R.
 Trenner, Ruth J.
 Trombley, Russell A.
 Trotter, William
 Truesdell, Vernal M.
 Tucker, Bess H.
 Tyler, Floyd E.
 Ullett, Gertrude R.
 Upstill, Helen
 Urbach, Lewis L.
 Vance, Odessa S.
 Vance, Otto K.
 Van Deusen, Paul S.
 Van Hyning, Bernice
 VanKirk, Budd
 VanSickle, John
 Vaughn, Eugene B.
 Vaught, Ada L.
 Vemity, George M.
 Venner, Harry E.
 Verheyden, Germaine
 Vermillion, Gertrude
 Viers, Charles
 Vincent, Tracy L.
 Vines, Leona A.
 Voglesong, Louise
 Vorwerk, R. J.
 Vough, Charles O.
 Vough, Guy O.
 Wachter, Rose
 Wagler, Lerhetta
 Wagner, E. A.
 Wagner, L. R.
 Wainer, Eugene
 Wakefield, Marie
 Walcott, Fannie J.
 Walder, John
 Waldkirch, Gladys
 Waldkirch, Earl
 Walker, Howard
 Walker, Mildred
 Walkup, A. Louise
 Wall, Ruth E.
 Waller, Gerald C.
 Walston, Maurine O.
 Walter, Cal
 Walter, Merrill E.
 Walther, Emelia E.
 Walther, Vorice
 Warner, Wilbert
 Warden, William F.
 Watkins, D. H.
 Watkins, Margaret
 Waxman, Louis
 Weaver, Charlotte R.
 Weaver, H. H.
 Weaver, Lowell A.
 Weaver, Madie I.
 Webb, Alma C.
 Weber, George F.
 Weber, James M.
 Weber, Merrill S.
 Weidenhamer, Ed. B.
 Wehl, Moneta R.
 Weisel, Clare W.
 Weisel, P. W.
 Welch, Amy L.
 Welker, Melvin
 Wells, Raymond B.
 Weltner, Dora
 Wenger, C. H.
 Werra, Gerhard
 Wessel, Helen
 Westfall, Mabel
 Westfall, Stella Bates
 Westfall, Theodore R.
 Weston, Evelyn G.
 Wetterlund, Alice
 Wetzel, George E.
 Wetzel, Pauline C.
 Wharton, Cloyd F.
 Wheeler, Ruth I.
 Wheeler, Stephen
 Whelan, John V.
 Whitacre, C. R.
 White, Clarence E.
 White, C. James
 White, J. C.
 White, Joseph H.
 White, Kathryn C.
 White, Marye E.
 White, Paul L.
 White, Wayne J.
 Whitmore, Harold M.
 Whittle, Marion H.
 Whyler, Frank E.
 Wilcox, Ralph
 Wilcox, Richard P.
 Wiles, Bernice C.
 Wilkinson, Charles H.
 Williams, Alta W.
 Williams, Alfaretta
 Williams, Beatrice
 Williams, Edward J.
 Williams, F. M.
 Williams, LaVerne
 Williams, Luella E.
 Williams, Nelson G.
 Williams, Paul S.
 Williams, Robert S.
 Williams, Sam L.
 Willingham, Ruth P.
 Willis, Hazel K.
 Willis, Samuel Reese
 Willmott, L. J.
 Wilson, Eleanor
 Wilson, J. O.
 Winder, G. L.
 Winkle, Mary
 Winnail, Paul F.
 Winner, Roy P.
 Winslow, Nat R.
 Winter, Margery
 Wiper, Joseph
 Wise, Mabel
 Wissinger, Ralph E.
 Witmer, Merrill D.
 Witthoef, Dorothy S.
 Witzeman, B. Evangeline

Wohlgamuth, G. L.
 Work, Owen J.
 Wolf, Alvin
 Wolfe, Edna J.
 Wolfe, Homer G.
 Wolfe, H. Vernon
 Wolfe, Raymond
 Wolford, Mary
 Wolverton, John P.
 Wood, Archie
 Wood, G. M.
 Wood, Leona R.
 Wood, Thomas B.
 Wood, Winnigene I.
 Woodard, Harriet E.
 Wooding, Kathryn
 Woodruff, Wayne F.
 Woodward, A. W.
 Woodward, Geraldine
 Woodward, Kent W.
 Woolley, Edwin
 Woollicroft, Arthur E.

Wooton, Nina E.
 Work, Owen J.
 Workman, Lucille K.
 Wormald, Robert M.
 Wormald, Willis R.
 Worrell, Mayme
 Worrell, Virginia Mae
 Worster, Charles M.
 Wright, Edna M.
 Wright, George D.
 Wright, Howard M.
 Wright, Louise J.
 Wybel, Grace
 Wyle, James
 Wymer, Lulu D.
 Yager, Marguerite
 Yahl, Margaret W.
 Yanley, F. Wilson
 Yeager, J. D.
 Yerrick, Helen
 Yoacum, Cleon Mary
 Yocum, Miles W.

Young, Hebert
 Young, Robert M.
 Young, Roy F.
 Yount, James F.
 Yount, R. S.
 Zahniser, Kenneth
 Zahniser, Robert E.
 Zalob, Stanley G.
 Zarle, R. H.
 Zarnish, Peter
 Zavesin, Stephen
 Zotterman, Stephen
 Zeis, Mary
 Zepp, Marguerite E.
 Zettle, Glenn
 Zickefoose, Cecil
 Ziegler, Stanley E.
 Zimmerman, O. Lawrence
 Zinninger, Alma M.
 Zook, Fannie B.
 Zuver, Neva May
 Zuiderhock, R. N.

Men 1131; Women 870; Total 2001

1929 SUMMER SESSION

Adams, Jennie H.
 Aiken, Richard
 Albers, Alta
 Alexander, Maude M.
 Allen, Anne G.
 Allen, Geraldine
 Allen, Margaret J.
 Allison, Birdine L.
 Amos, Jennie M.
 Anthony, Lillian C.
 Apel, Sara B.
 Arbogast, Doris M.
 Arkebauer, George G.
 Armstrong, Catherine J.
 Armstrong, Edith Irene
 Ashburn, Glenn
 Ashburn, Mildred Hoge
 Atwell, Gladys Viola
 Babb, Lois L.
 Baechtcl, Gertrude B.
 Bailes, Clarice L.
 Baltz, Robert E.
 Barber, Freda Isabelle
 Barker, Clara G.
 Barker, Laura B.
 Barnes, Lorena E.
 Barrett, Lois B.
 Bartholomew, Luther R.
 Bartholomew, Pearl
 Bean, Gladys E.
 Becker, Harold D.
 Becker, Marie
 Bell, Roscoe R.
 Belohlavek, Vlasta M.
 Bender, Elizabeth C.
 Bergen, Elizabeth
 Bernard, Evelyn
 Bettler, Marjorie R.
 Biggs, Helen Lambert
 Bissell, Lillias L.
 Bitcon, Leroy
 Black, Paul Eugene
 Blagg, Jean
 Blake, Hazel M.
 Blank, Ruth Esther
 Boak, Josephine
 Bolinger, Blanche
 Booth, Richard F.
 Bordner, Ada E.
 Bowen, Achsah May
 Bowers, John J.
 Bowman, Laura L.
 Boyd, Helen F.
 Braunstein, Katie
 Bridgewater, John W.
 Brooker, Harriet E.
 Brown, Lucille L.
 Buchtcl, H. Leila
 Bucklin, Isabel M.
 Burgner, Hazel
 Burket, Grace L.
 Burson, Mildred B.
 Bundy, Charles
 Calne, James Robert
 Calhoun, Dooris Elise
 Campbell, James M.
 Canavan, Mary C.
 Cardarelli, Anna J.
 Cardarelli, Jennie H.
 Carney, Alice Jeane
 Chalmers, Harry J.
 Clapp, Suvila Pauline
 Cockrell, Helen E.
 Collins, James B.
 Conklin, Mattie V.
 Conley, Ruth
 Corbett, Elizabeth G.
 Corl, Helen M.
 Corns, Richard W.
 Courtney, Margaret C.
 Cowie, Esther J.
 Cox, Clemmie G.
 Cramer, Octave Teague (Mrs.)
 Crankshaw, Ruth Ella
 Crisp, Harriet E.
 Crissinger, Merle S.
 Croft, Nellie E.
 Crowell, Estelle W.
 Croysdale, Arthur
 Crum, Allen S.
 Cubbison, Jennie M.
 Cummins, Jane
 Curfman, Bessie Fay
 Cusack, Margaret E.
 Daily, Robert M.
 Daily, Roy Thomas
 Danford, C. Myron
 Danforth, Florence M.
 Davis, Hazel Belle
 Davis, Richard Lee
 Day, Gertrude Ethel
 Decker, Faith
 Decker, Margaret R.
 Delp, Gertrude C.
 Delp, Irwin W.
 Denning, Murl Irene
 Dete, Leo J., Jr.
 Dewey, Harry E.
 Dice, Dorothea E.
 Dickas, Kathryn E.
 Dieckman, Florence S.
 Diller, Goldie M.
 Dittmore, James A.
 Dover, Elizabeth W.
 Dumm, Eva Marie
 Dunckley, Sarah
 Eckroate, Harold J.
 Ellis, Anna J.
 Ellis, Nina
 Emmons, Paulyne D.
 Emmons, Virginia Lois
 Engstrom, Esther N.
 Esser, Kathleen Mary
 Evans, M. Elizabeth
 Everhard, Beulah
 Ewing, Ruth Florence
 Fabry, Eleanora G.
 Fankbonner, Doris K.
 Farlin, M. Elizabeth
 Farnsworth, Helen B.
 Farrington, Robert A.
 Favinger, Clarence M.
 Ferguson, Mildred
 Fetter, Marian E.
 Fetter, Mary Isabelle
 Fink, Herbert Henry
 Florenzo, Samuel
 Fischer, Mary Louise
 Fisher, Ethel Mae
 Fisher, Wilbur G.
 Flanigan, Mary V.
 Fletcher, Josephine Stanley
 Flickinger, Helen Louise
 Flint, Eldora Helen
 Fornwalt, Roy G.
 Foutts, James C.
 Fowler, Lena
 Fox, Jennie
 Frase, Mabel
 Frederick, Florence
 Franch, Charlotte J.
 Friedman, Alfred Paul
 Fry, Julia Imogene
 Frye, Irene Pearl
 Fuller, Belle
 Fulton, Robert P.
 Galloway, Robert W.
 Gantz, Theodore A.
 Garrison, Donald
 Gibbs, Edna A.
 Gibson, Emily Ruth
 Giessen, Dorothy E.
 Gilbert, F. Fern
 Gilbride, Rose M.
 Gilgen, Anna
 Gilham, Clarence
 Giroux, Rachel M.
 Grable, Jacob Lloyd
 Graham, Robert Bruce
 Graham, Ruth E.
 Gray, Donald
 Greenly, Russell J.
 Gregg, Wilford J.
 Greth, Douglas T.
 Griebing, Genevieve E.
 Griffith, John Maynard
 Gruccio, Joseph
 Gruner, Albert Walter
 Hadley, Lucy
 Hafner, Ethel Edith
 Hall, James B.
 Hall, Vesta Gladys
 Hallenbeck, Martha W.
 Hanna, Gaynelle L.
 Harding, Wilma Josephine
 Harland, Inogene Canfield
 Harrington, Fay Belle
 Harrington, Mrs. I. W.
 Harris, Agnes Margaret
 Harris, Helen
 Harsh, Elma Kathryn
 Harshbarger, Glen E.
 Harshbarger, Irene M.
 Harter, Margaret Lucile
 Harwell, Mary Juliette
 Hawk, Harry
 Hay, Lloyd Q.
 Hayes, Thomas Victor
 Hayne, John
 Hedger, Bethel W.
 Henretty, Florence
 Henry, Minnie P.
 Heppert, Wallace Albert
 Herrick, Earl V.
 Hill, Charles J.
 Hill, Italia Elizabeth
 Hill, Marjorie
 Hinch, Roy O.
 Hlas, John P.
 Hopkins, Carl L.
 Hosfield, Henry L.
 Hossler, Willa Alice
 Hottenstein, Frances C.
 Hottenstein, Howard
 Houglan, Mary Jeanette
 Houser, Ruth Louise
 Houser, Mildred F.
 Housley, Ruth
 Hutz, Elonet
 Hyatt, Eulalia C.
 Inches, Eleanor Mae
 Irwin, Edna Margaret
 Irvin, Gladys Arbogast
 Jaccaud, Mrs. Elma
 Jackson, Martha E.
 James, Ruth Eleanor
 Jeppesen, Helen L.
 Johnson, Ruth E.
 Jones, Irene Moredock
 Jones, Robert J.
 Jones, Thomas Edwin
 Kastner, Lena M.
 Keach, Agnes
 Keck, Isa

- Keeney, Harriet W.
 Keep, Haskell H.
 Keifer, Ruth Loretta
 Kelly, Kathryn U.
 Kendeigh, Mabel C.
 Kenrick, Lorena G.
 Kepler, Dorothy
 Keyser, Margaret H.
 Kirk, Clara L.
 Kirk, Mary J.
 Kittredge, Lois
 Kline, Dorothy E.
 Klinker, Enid G.
 Knabe, Leona Ruth
 Knapp, Audrey Irene
 Knecht, Cloda Lucille
 Koegel, Louise
 Koester, Lillian
 Kolb, Mae Lucille
 Kopf, William H.
 Kooztz, Esther
 Krohngold, R. Cyril
 Krupp, Ilma Irene
 Kuehnle, Charles H.
 Kuntzleman, Roy Albert
 Lann, Viola Mary
 Lansinger, Inga T.
 Lash, Inez Crawford
 Layfield, Gertrude A.
 Lee, Lura Clyde
 Leibforth, Rozena
 Leighty, Alice Virginia
 Lewis, S. Lois
 Lighfritz, Alma S.
 Lindley, Lettie M.
 Lins, George W.
 Little, William O.
 Loeber, William G.
 Love, Ivan R.
 Lowery, Mathilde
 Lyles, Mrs. Cecil
 Lynn, Ruby Faye
 Lyon, Paul Gilmore
 McAdoo, Don P.
 McAuliffe, Alice E.
 McCallops, Dorothy Z.
 McCollum, Inez
 McCormick, Mary E.
 McCune, Grace E.
 McDonald, Rose E.
 McDougal, John T.
 McDowell, John P.
 McGinnis, Ruth S.
 McLees, Ethel
 Mackey, Edna Mae
 Maillard, Mary L.
 Mancine, Joseph
 Manion, Dorothy A.
 Marshall, Margaret U.
 Masqueller, Florence
 Mast, Florence
 Master, Lucille E.
 Mayhew, Clarkson
 Maxwell, Boyd W.
 Mazey, Alleyne
 Metzger, Frances I.
 Miday, Francis
 Miller, Margaret P.
 Miller, Marie E.
 Miller, Ruby Marguerite
 Milleysack, John B.
 Million, Floyd B.
 Minnick, Marguerite L.
 Minter, Irene
 Mitchell, Emma S.
 Mitchell, Henrietta M.
 Mitchell, Thelma
 Montgomery, Edwin A.
 Moon, Marie Virginia
 Mooney, Sara M.
 Moore, John F.
 Moore, Lena I.
 Moorehead, Alta T.
 Morgan, Charles K.
 Morgan, Olga S.
 Morris, Vera I.
 Morrison, Janet
 Morrison, Walter H.
 Mottmiller, Neva D.
 Murdock, Hettie B.
 Musser, Beatrice B.
 Musser, Esther M.
 Myers, Harriet L.
 Myers, Martha J.
 Naumer, Lora L.
 Norton, Helen C.
 Nottingham, Margaret A.
 Olden, Morris
 Oldman, Kenneth R.
 O'Malley, Margaret M.
 O'Neil, Katherine
 O'Prey, Howard M.
 Orin, Pauline
 Otto, Russell
 Parks, Charles W.
 Parr, Viola L.
 Parry, Lissa M.
 Pearson, Gladys G.
 Pease, Ruth S.
 Pees, Mahala J.
 Pesaric, Jack J.
 Peterson, Leo
 Pfaff, Rhea
 Pfeister, Sevilla W.
 Pfouts, Katharine E.
 Phillips, Annabelle
 Phillips, Virginia G.
 Piazza, Josephine A.
 Pike, Mary Louise
 Pittenger, G. H.
 Plotkin, Louise
 Plum, Esther I.
 Points, Florence M.
 Poppenger, Blanche B.
 Porter, Florence C.
 Porter, John E.
 Porter, Mary E.
 Porter, Nellie T.
 Price, Alice Maude
 Pulos, George
 Purdy, Vada
 Ransom, Mildred E.
 Rathburn, Elizabeth F.
 Reed, Edith H.
 Reed, Margaret Lyle
 Reed, Martha V.
 Reed, Robert E.
 Reynolds, Myrtle M.
 Rice, Gladys K.
 Riehl, Doris L.
 Rininger, Lottie D.
 Roberts, Bertha P.
 Robinson, Euna Margaret
 Rodda, Herbert
 Rogers, David C.
 Roof, Hallie B.
 Rook, Margaret
 Ross, Alice I.
 Ross, Sarah
 Roth, Cordelia C.
 Rudy, Frieda C.
 Rumsey, Maude E.
 Ruth, Estelle F.
 Ruttman, D. Walter
 Saladna, Louis S.
 Sanderson, Dorothy C.
 Santrock, Nora A.
 Sapp, Dora V.
 Saunders, Esther F.
 Schaefer, Grace L.
 Schmidt, Elisabeth P.
 Schnegg, Helen B.
 Schnegg, Wilma V.
 Schoen, Florence
 Schopke, Eleanor A.
 Schorie, Dorothy
 Schraegle, Elizabeth J.
 Schultz, Rosalind P.
 Schwartz, Celia H.
 Schwartz, Jack A.
 Schwarz, Mary A.
 Selby, Florence B.
 Shade, M. Elta
 Shaeffer, Marie W.
 Shanahan, Doris E.
 Shannon, Lulu S.
 Sharpe, Nelle C.
 Sheinin, Katherine
 Shields, Edith F.
 Shotwell, Mary F.
 Shover, F. Rebecca
 Shrigley, Mynetta
 Shugert, Helen J.
 Shull, Shirley W.
 Simpson, Anna
 Simpson, Mary L.
 Singer, Beatrice E.
 Slabaugh, Watson E.
 Slater, Ailene
 Sloan, William P.
 Smith, John D.
 Smith, Samuel W.
 Smith, Tom
 Smith, Viola A.
 Snider, Joy Alfred
 Snyder, Anne
 Snyder, Bertha
 Snyder, Corinne M.
 Snyder, Margaret E.
 Snyder, Nellie M.
 Sorn, Grace Julia
 Speicher, Joseph L.
 Spicer, Francis W.
 Squires, Blanche W.
 Stahl, Katheryne
 Stansberry, Callie M.
 Steinmetz, Lucile H.
 Stetler, Meta Anne
 Stinaff, Robert K.
 Stock, Laverna Mae
 Storts, Adaline M.
 Straley, Harry G.
 Stratton, George B.
 Stroh, Byron F.
 Stroman, Doris A.
 Strong, Cordelia R.
 Sugden, John H.
 Sullivan, Katherine
 Sullivan, William C.
 Swearingin, Walter T.
 Swift, Euruth Rudolph
 Switzer, Mrs. Happy
 Switzer, Charles C.
 Tait, Leonard G.
 Tedrich, Helen
 Tennison, Ann Marie
 Thatch, John S.
 Thomas, Esmond
 Thompson, Dorothy
 Thompson, Flossie
 Thompson, Mabel A.
 Thornburgh, Lucille
 Todd, Elsie C.
 Toharsky, Mollie
 Treffinger, Carolyn E.
 Treloar, Phillippa M.
 Trew, Bessie D.
 Tribble, Cornelia V.
 Tripp, Charles D.
 Trump, Ruth A.
 Tschantz, Helen P.
 Turina, Irvin Walter
 Ulmer, Amy H.

Upstill, Helen
Van Noate, Metta F.
Veon, Mamie
Vermillian, Gertrude
Wadsworth, Florence L.
Walker, June
Wallace, Grace J.
Walston, Oneta M.
Walter, Mabel E.
Watkins, Pauline L.
Webb, Vaughn M.
Webster, Vashni Edward
Wenger, Courtney H.
Wentzler, Norman E.
Wessel, Helen M.
Westfall, Stela B.
Weyer, Ada Belle
Whiteman, Frank M.
Wilcox, Richard P.
Wilkoff, Myron

Williams, Cecil D.
Williams, Miriam A.
Wilson, Gladys
Wilson, Hannah J.
Wilson, Margaret I.
Wilson, Miles
Winchell, Gladys M.
Windisch, Eva F.
Winkle, Mary E.
Wise, Miriam L.
Witwer, Lois G.
Wolfe, Helen A.
Wolford, Mary Edna
Wood, Madge Lucile
Woodford, DeWitt E.
Wooding, Kathryn S.
Woolcock, Cyril W.
Work, E. Elisabeth
Workman, Lucille K.

Wyatt, Birchard E.
Wybel, Grace A.
Yeager, Judd D.
Yood, Marjorie S.
Young, Galen Henry
Young, Ruth D.
Zahniser, Robert E.
Zeis, Mary
Zeis, Ruth M.
Zeno, Russell R.
Zinninger, Alma M.
Zockine, Sue W.
Sister M. Bernard Friess
Sister M. Clarita Bernard
Sister Mary Edith Bailey
Sister M. Helen
Sister N. Petronilla Gosser
Sister N. Romaine Sartory
Sister M. Bernice Roussert

Men 156; Women 379; Total 535

THE UNIVERSITY OF AKRON

SUMMARY OF STUDENTS IN DAY CLASSES

BUCHTEL COLLEGE OF LIBERAL ARTS

	Men	Women	Total
Graduate Students.....	13	..	13
Seniors.....	44	27	71
Juniors.....	63	36	99
Sophomores.....	53	41	94
Freshmen.....	118	51	169
Irregular Students.....	24	7	31
Special Students.....	16	6	22
	331	168	499

CURTIS SCHOOL OF HOME ECONOMICS

	Women	Total
Seniors.....	1	1
Juniors.....	3	3
Sophomores.....	3	3
Freshmen.....	5	5
Irregular Students.....	1	1
	13	13

COLLEGE OF ENGINEERING AND COMMERCE

	Men	Women	Total
Seniors.....	34	2	36
Juniors.....	63	5	68
Pre-Juniors.....	37	1	38
Sophomores.....	80	13	93
Freshmen.....	147	29	176
Irregular Students.....	7	..	7
Special.....	11	1	12
	379	51	430

Distribution by Departments

Engineering.....	243	1	244
Commerce and Business Administration.....	134	1	135
Secretarial Science.....	2	49	51
	379	51	430

THE TEACHERS COLLEGE

Graduate Students.....	4	12	16
Seniors.....	7	50	57
Juniors.....	13	51	64
Sophomores.....	15	69	84
Freshmen.....	17	102	119
Irregular Students.....	2	12	14
Special.....	3	2	5
	61	298	359

SUMMARY OF ALL STUDENTS IN THE UNIVERSITY

	Men	Women	Total
Graduate Students.....	17	12	29
Seniors.....	85	80	165
Juniors.....	139	95	234
Pre-Juniors.....	37	1	38
Sophomores.....	148	126	274
Freshmen.....	282	187	469
Irregular.....	33	20	53
Special.....	30	9	39
	<hr/>	<hr/>	<hr/>
Total in Day Session.....	771	530	1301
Total in Evening Session.....	1131	870	2001
Total Summer Session (1929).....	156	379	535
	<hr/>	<hr/>	<hr/>
	2058	1779	3837
Less duplications.....			423
			<hr/>
Total net enrollment.....			3414
Total net enrollment reduced to full-time student basis, evaluating five part-time (evening and summer) students as equivalent to one full-time student.....			1808

DEGREES CONFERRED JUNE 18, 1929

BUCHTEL COLLEGE OF
LIBERAL ARTS*Bachelor of Arts*

*Francis Joseph Amer
Ralph Wesley Auten
Louis A. Berry
Paul William Bordner
Laura Leone Bowman
Lozier Caplan
Amy Alta Capps
Donald Thomas Carney
Marian Helen Conner
Panola Coulter, with honors
Helen Crawford
Nellie Earnestine Croft
Arden Edson Firestone
Walter Deane Flower
C. Jeane Garrett
Harry Thomas Goodenberger
Florence Emma Halter
Chester Vincent Hartline
Corinne Christine Helwig
Edward Foster Herman
Ethel Wells Hollinger
Frances Mary Hollingsworth
Virginia Inez Knoke
Samuel J. Kodish
Rae Cyril Krohngold
Beatrice Adelaide McDonald
George Max McFarland
Dorothea F. Miller
Mildred Smith Neuwirth
Anne Marie Pogany
Robert Cloyd Quine
Henry Reining
*Robert Bernard Romweber
Clair Safreed
Ivan C. Satow
Mildred Vivian Sayre
Georgia Gertrude Stillman
Elizabeth B. Stump
Elaie A. Wassmer
Joseph Winer
Ethel Harriet Zettle

Bachelor of Science

Grace A. Behling
Raymond Edward Bitter
Raymond Ramsey Brown
Kuo Chang Chen
Ruth Evelyn Connell
Carl Joseph Figenschner
Addis Howard Finney
Belle Fuller
Joseph Ellsworth Gilleland
Weston A. Hare
Mary Terwilliger Harms
†Arthur Ralph Keirn
Theodore A. Krutky
Raymond Wilson McNamee
George William Oplinger
Randolph F. Richards
George Lewis Royer
Gerald Theodore Schwarz
John Stanley Shondel
Mildred Bessie Thompson,
with honors

Donald M. Traul
Eugene Wainer
Ralph Earl Wetzel
Richard Parker Wilcox
Charles Francis Winans

CURTIS SCHOOL OF HOME
ECONOMICS*Bachelor of Science in Home
Economics*

Kathryn Charlotte Brewster
Margaret Anne Gravesmill
Edna Faihthe Leckrone
Emma Elizabeth Scobie
B. Evangeline Witzeman

COLLEGE OF ENGINEER-
ING AND COMMERCE*Civil Engineer*

Willard Emerson Kopf
Hamilton Humes Tomb

Electrical Engineer

Philip Wilson Bierman
Glenn Elwood Burkholder
Edward Robert Hartman
John Conrad Schacht
Troy Scranton Starr
Charles David Tinley

Mechanical Engineer

Earle Kenneth Hamlen
Victor Henry Hostetler
Nelson Edward Lister
Leonard A. Marriott
Paul David Suloff
Robert Bruce Willett

*Bachelor of Science in
Business Administration*

Samuel John Forbes

*Bachelor of Science in
Commerces*

Wesley O. Morris
Harold Clifford Nelson
William Malcolm Rose
John Dunster Tidyman
Ellwood Milton Zuelsdorf

*Bachelor of Science in
Secretarial Science*

Margaret Stall

THE TEACHERS COLLEGE

Bachelor of Education

Katharine Marie Alpeter
Mary Baus
Margaret K. Bolanz
Dora Holub Braverman
Bernadette J. Burgess
Mary E. Butterworth
Myrtle Blanche Colville
Edna Bernice Cramer
Rose Martha Crano
Dorothy Margaret Dettling
Catharine Myra DeYoung

Mayme Goldy Edwards
Elizabeth Feather
Henry Alfred Giroux
Roy Edwin Gross
Alice Frances Hannah
Elizabeth Jane Harding
Margaret Avenelle Harford
Laura North Hauck
Merlin Lewis Hayes
Miriam Audrey Holub
Mildred Ethel Housel
Mimi Ida Jehle (degree
granted Nov. 13, 1928)
Robert Benjamin Jones
Judson George Jusell
Winifred Keirn
Lillian Gertrude Krager
Ellen Lenore Lebold
Eunice Marks Littman
Eulalia McVan Ludlam
Mary Elizabeth McShaffrey
Anna Berenice Manziona
Marian Jane Marsh
Ada Miriam Mason
Howard Virgil Matson
Mary Eleanor Metzger
Grayce Jeannette Miller
Leah Almira Minner
Waldemar A. Nischwitz
Marie Louise Otis
Anna Fay Parker
Frances Elizabeth Parsons
Stella Louise Potschner
Lucetta Rebecca Randall
Elizabeth Reining
Charles Ewing Robison
Rose Rae Rosenberg
Alice Isabelle Ross
Daniel Walter Ruttman, Jr.
Margaret Mary Ryan
Anne Sarbey
John Marion Shaffer
Beryl D. Spafford
Mildred E. Stebbins
Lawrence Edw. Suhadolink
Ellen Florence Sullivan
Nora Elizabeth Sullivan
Loretta Satura Tisch
Rose Caroline Wachter
Vivian Mary Williams
Ethel Louise Wilson
Rose Wine
Florence Pearl Woodworth
Helen Edith Wright

Master of Arts in Education
Evelyn Doris Corbett
Nathan Emery Hodges
Esther Naomi Mosher
Edna Moore Test
Lewis Clark Turner

Master of Science in Education
Elvira Sutter Brenfleck
Velma Olga Workman

Master of Education
Paula Schapiro
Harry Arthur Smith
Elizabeth Clark Stein
Ellen Florence Sullivan

*In Combination Arts-Law Course with Western Reserve University.

†In Combination Arts-Law Course with the University of Michigan.

‡In Combination Arts-Medicine Course with Western Reserve University.

TEACHERS COLLEGE CERTIFICATES GRANTED DURING
THE YEAR 1928-1929THREE YEAR
ELEMENTARY

Ruth Roetzel
Ellen Sullivan
Nora Sullivan

TWO YEAR ELEMENTARY

Hazel M. Blake
Marian Fetter
Mary Fetter
Wava V. Gray
Elizabeth Hill
Margaret Burket Johnson
Goldo Kunkel
Nadine Lewis

Ruth Schaenzlin Lewis
Edna McFarlin
Alice H. Shafer
Dorothy Smiley
Sarah Stanley
Georgia Albright Wallace
Arthur Wooliscraft

ASSEMBLY SPEAKERS and ENTERTAINERS—1929

- January 11.....Rev. J. H. Scotford, Pastor of the Hough Avenue Congregational Church, "South America."
- January 18.....Founder's Day. Clarence C. Carlton, Class of '04, Lansing, Michigan, "What About Education?"
- January 25.....Mrs. J. Warren Ritchie of Cincinnati, Ohio, author and literary critic.
- February 8.....Ida M. Tarbell, author, "Lincoln."
- February 15.....Lorado Taft, American Sculptor.
- March 1.....Dean Esther M. Gaw, The Ohio State University.
- March 8.....The University Glee Clubs and Orchestra.
- March 15.....Angelo Patri, New York City, Child Psychologist.
- March 22.....Dr. Charles W. Gilkey, Dean of the Chapel at the University of Chicago.
- April 5.....J. Garfield Chapman—Musical Program.
- April 12.....Mr. Roswell Johnson, "Human Evolution."
- April 19.....Mr. Raymond J. Knoepfel, Past Rotary International President.
- April 26.....The University Theater, "Suppressed Desires."
- May 10.....Edwin Markham, "Poetry."
- May 17.....Rev. William W. Dieterich, Pastor of the First Methodist Church of Akron.
- May 31.....Ashton Prize Contest Speakers.
- June 7.....R. O. T. C. Program.
- June 16.....Dr. Abba Hillel Silver, The Temple, Cleveland, Ohio, Baccalaureate Sermon, "Education and the Good Life."
- June 18.....Dr. William John Cooper, United States Commissioner of Education, Commencement Address, "The City University."
- June 27.....Dr. R. G. Jones, Superintendent of Schools, Cleveland, Ohio.
- July 11.....Dr. L. A. Pechstein, Dean of School of Education, University of Cincinnati, "The Play of Children."
- July 18.....Musical Program by faculty of music department.
- July 25.....Dr. Charles H. Judd, School of Education, the University of Chicago, "Education and Social Institutions."
- August 1.....Program by the department of vocal and dramatic expression, directed by Miss Carita McEbright.
- September 20..... President George F. Zook, "The University Bond Issue."

- September 27.....Oscar Hunsicker, Class of '19, President of the University of Akron Alumni Association.
- October 4.....Miss Florence Leddbetter, soprano with Cleveland Opera Guild.
- October 18.....Rev. Albert C. Fox, Dean of John Carroll University, Cleveland, Ohio.
- November 8.....The University Theater, "Thursday Evening."
- November 15.....Dr. Henry Neuman, leader of the Brooklyn Society for Ethical Culture.
- November 22.....Edmund Vance Cooke, poet, Cleveland, Ohio.
- December 6.....Colonel A. L. Conger, An Illustrated Lecture.
- December 13.....University Musical Organizations.
- December 20.....The University Theater—"The Passing of the Third Floor Back."

PRIZES AND HONORS

ASHTON CONTEST PRIZES

Junior Ashton Prize Contest, May 28, 1929. First Prize awarded to Fraak Martin Whiteman; second prize to Louis F. Hampel.

Sophomore Ashton Prize Contest, May 29, 1929. First prize awarded to Cyril Jones; second prize to Robert Stinaff.

Senior Ashton Prize Contest, June 17, 1929. First Prize awarded to Lozier Caplan; second prize to Laura Bowman.

THE SENIOR ALUMNI PRIZE

The Senior Alumni Prize was divided between Henry Reining and Charles Winans.

THE TOMLINSON PRIZES

The Tomlinson Essay Prizes were awarded to the following students:

First prize to Frederic L. Cole, '30.

Second prize to Chalmers K. Stewart, '32.

The winners of the Tomlinson Cups were:

THE ELIZABETH A. THOMPSON CUP

The winner of the Cup for 1928-29 was South High School.

THE JOHN R. BUCHTEL CUP

The winner of the Cup for 1928-29 was Garfield High School.

THE LOOMIS CUP

The first and second Cups donated by Mr. J. P. Loomis are owned by South High School. The third Loomis Cup donated by Mrs. J. P. Loomis was won in 1925-26 by Central High School, in 1926-27 by North High School, in 1927-28 by Garfield High School, in 1928-29 by West High School.

PHI SIGMA ALPHA

Students elected to membership in the Phi Sigma Alpha Fraternity in March, 1929, from the senior and junior classes were, in accordance with the rule admitting juniors:

Seniors
George Max McFarland
Grace A. Behling
Anne Marie Pogany

Juniors
Norman Fisher
Martha Sturdevant

SIGMA PI EPSILON

Students elected to membership in Sigma Pi Epsilon from the class of 1929 in the Teachers College: Mary Baus, Alice Frances Hannah, Judson George Jusell, Anna Berenice Manziona, Rose Caroline Wachter.

SIGMA TAU

The students elected to membership in Sigma Tau from the junior class of the Department of Engineering were Robert Broxon, Victor Hostetler, Leonard Marriott, Wendall Wilson.

HONORS COURSE STUDENTS IN THE CLASS OF 1929

Panola Coulter, in English; Thesis, "The English Humanitarian Novel of the Nineteenth Century."

Mildred Bessie Thompson, in Mathematics; Thesis, "The Hyperbolic Functions."

HONOR GRADUATE IN RESERVE OFFICERS
TRAINING CORPS UNIT IN 1929

Henry Reining.

THE UNIVERSITY OF AKRON ALUMNI ASSOCIATION 1930-31 DIRECTORY

OFFICERS OF THE GENERAL ASSOCIATION (1929-30)

President Oscar Hunsicker, '19 2nd V.-Pres. William H. Knowlton, '21
1st V.-Pres. Hal G. Knight, '06 Honorary Treas. Dr. Chas. Bulger, '08
Secretary Margaret Fanning

EXECUTIVE COMMITTEE

Oscar Hunsicker, '19; William Knowlton, '21; Hal Knight, '06; Dr. Charles Bulger, '08; C. R. Olin, '85; Mrs. Ray Mertz, '17, and the Alumni Secretary.

ALUMNI BOARD OF TRUSTEES

Term expires June, 1931	Term expires June, 1932
Arden Hardgrove, '11	J. Clarence Frank, '99
Mrs. Ray Mertz, '17	Miss Marion Voris, '14
Bruce Bierce, '20	K. Dolbeer Smith, '13
George Weber, '21	Rolland Fox, '21
Term expires June, 1933	
Dr. E. B. Foltz, '96	
Mrs. William Fleming, '11	
Leroy Barnette, '14	
Arthur Haley, '20	

ASSOCIATION BRANCHES

Chicago—President, Honor C. Fouch, '09, 4122 Grand Ave., Western Springs, Ill.
Cleveland—President, James A. Weeks, '21 % Thompson, Hine & Flory, Guardian Bldg., Cleveland, O.
Michigan—President, W. P. Putnam, '93, 554 Bagley Ave., Detroit, Mich.
Pittsburgh—President, Robert Crist, '05, 408 Brilliant St., Aspinwall, Pittsburgh, Pa.
Southern California—President, Albert T. Brown, '06, 1012 Louise St., Glendale, Calif.

THE "A" ASSOCIATION

The Varsity "A" Association is the alumni athletic organization at the University. All "A" Association members are also members of the general Alumni Association.

OFFICERS, 1929-30

President Frank Knowlton, '23 Vice Pres. Robert Hagenbaugh, '26
Secretary-Treasurer, Verlin Jenkins, ex '24

THE ALUMNI ASSOCIATION

The Alumni Association is the official organization of alumni to advance the interests of the University through its graduates and former students, all of whom are members of the Association. Only those who have paid their dues are eligible to vote or hold office.

The officers are president, two vice-presidents, treasurer, and secretary. The Association is governed by a Board of Alumni Trustees composed of twelve alumni and the Association Officers elected by general vote. Subject to the approval of the Alumni Trustees, power to act for the Association is vested in an executive committee composed of the General Association officers, the treasurer of the University, and one member of the Alumni Trustees.

The three forms of membership dues in the Alumni Association are as follows:

Annual dues and subscription to the Akron Alumnus \$2.00.

Life Membership Pledge (paid in three installments of \$10 each) \$30.00.

Alumni Loyalty Bond (paid in five annual installments of \$10 each).

The first three installments on these \$50.00 bonds are paid to the Alumni Association in full payment of a life membership in said association and the last two installments are paid to the University of Akron to be applied on an Alumni Loyalty Fund in said University, to be used for capital investment or endowment purposes as the Board of Directors of the University may deem best.

Checks for dues should be made payable to the University of Akron Alumni Association.

The University has graduated 1565 students.

THE ALUMNI OFFICE

The Alumni Office, headquarters of the Alumni Association on the campus, is in charge of the Alumni secretary and is located in Phillips Hall. Here are kept all records of the Association, files, biographical and historical data.

The secretary edits the Akron Alumnus, official publication of the Association, and the Alumni Register; has charge of Homecoming and Migration Days and assists in the celebration of Founder's Day. All alumni events at Commencement, the organization of alumni clubs, and alumni publicity work, are taken care of in the Alumni office.

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